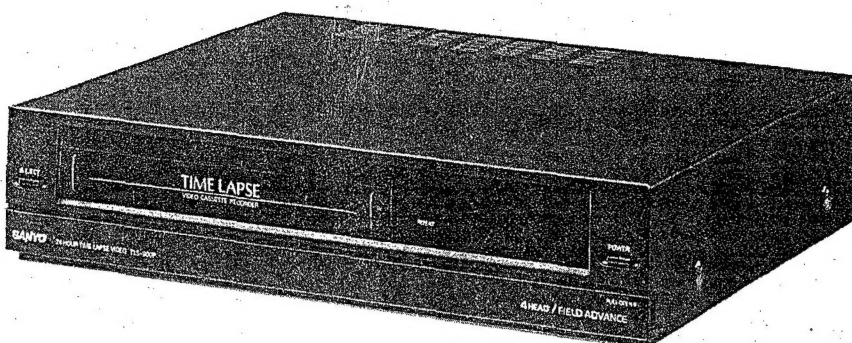




Time Lapse Video  
Cassette Recorder

TLS-900P



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## PRODUCT SAFETY NOTICE

The components designated by a symbol (  $\Delta$  ) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance, wattage and voltage ratings shown.

**NOTE :** Parts order must contain Model Number, Part Number and Description.

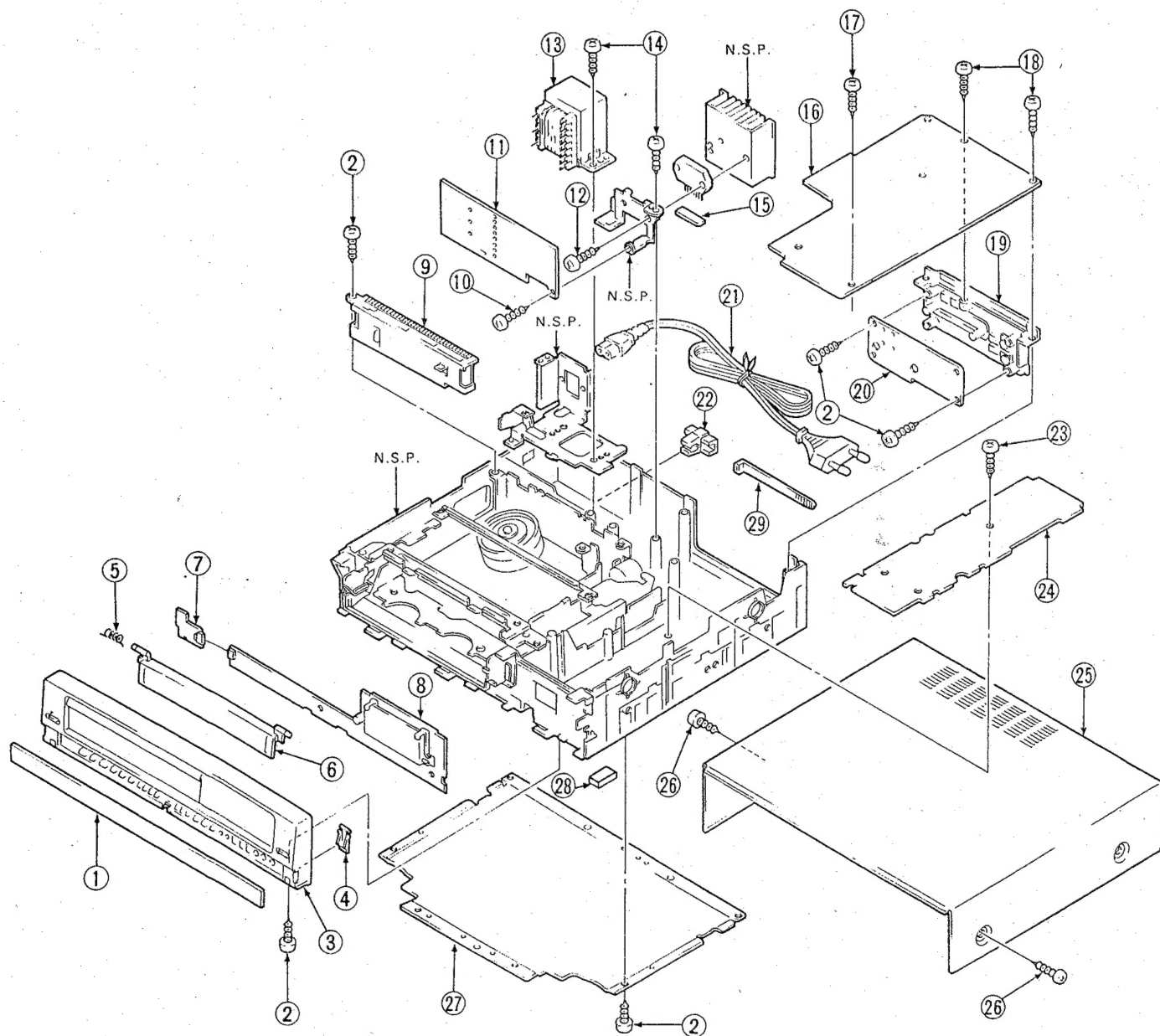
### ACCESSORIES & PACKING MATERIALS

Ref. No.	Part No.	Description
	613 133 7862	INSTRUCTION MANUAL
	613 133 1907	HOLDER
	613 053 6495	FIXER
	613 135 4463	CORR CASE, INNER
	613 125 5692	CUSHION INNER, LEFT
	613 125 5708	CUSHION INNER, RIGHT

### CABINET & CHASSIS PARTS

Ref. No.	Part No.	Description
1	613 133 7701	DOOR, FRONT
2	411 137 0007	SCR L-TPG BIN 3×10
3	613 134 8707	ASSY, CABINET, FRONT
4	613 048 2884	LOCK
5	613 110 2927	SPRING, DOOR CASSETTE
6	613 133 7695	DOOR, CASSETTE
7	613 134 8516	COMPL PCB, TM-2
8	613 134 8493	COMPL PCB, TM-1
9	613 134 8554	COMPL PCB, VP-1
10	411 021 6405	SCR S-TPG BIN 3×8
11	613 134 8578	COMPL PCB, PW-1
12	411 021 4500	SCR S-TPG BIN 3×16
13	$\Delta$ 613 121 1940	POWER TRANSFORMER, T5001
or	$\Delta$ 613 120 8391	POWER TRANSFORMER, T5001
14	411 021 7907	SCR S-TPG BIN 4×12
15	613 134 8592	COMPL PCB, PW-2
16	613 134 8776	COMPL PCB, CP-A
17	411 021 3800	SCR S-TPG BIN 3×10
18	411 021 4203	SCR S-TPG BIN 3×12
19	613 133 8173	TERMINAL
20	613 134 8523	COMPL PCB, TB-1
21	$\Delta$ 613 095 0550	POWER CORD (in Swiss)
or	$\Delta$ 613 108 3790	POWER CORD (in U.K)
or	$\Delta$ 613 108 3806	POWER CORD (in Australia)
22	613 133 1907	HOLDER
23	411 021 3800	SCR S-TPG BIN 3×10
24	613 134 8530	COMPL PCB, VD-1
25	613 135 4357	COVER, TOP
or	613 135 4364	COVER, TOP
26	412 028 9406	SPECIAL SCREW
27	613 121 0967	COVER, BOTTOM
28	613 121 1001	STAND, FELT
29	613 053 6495	FIXER

## CABINET & CHASSIS PARTS



N.S.P. : Not available as service parts

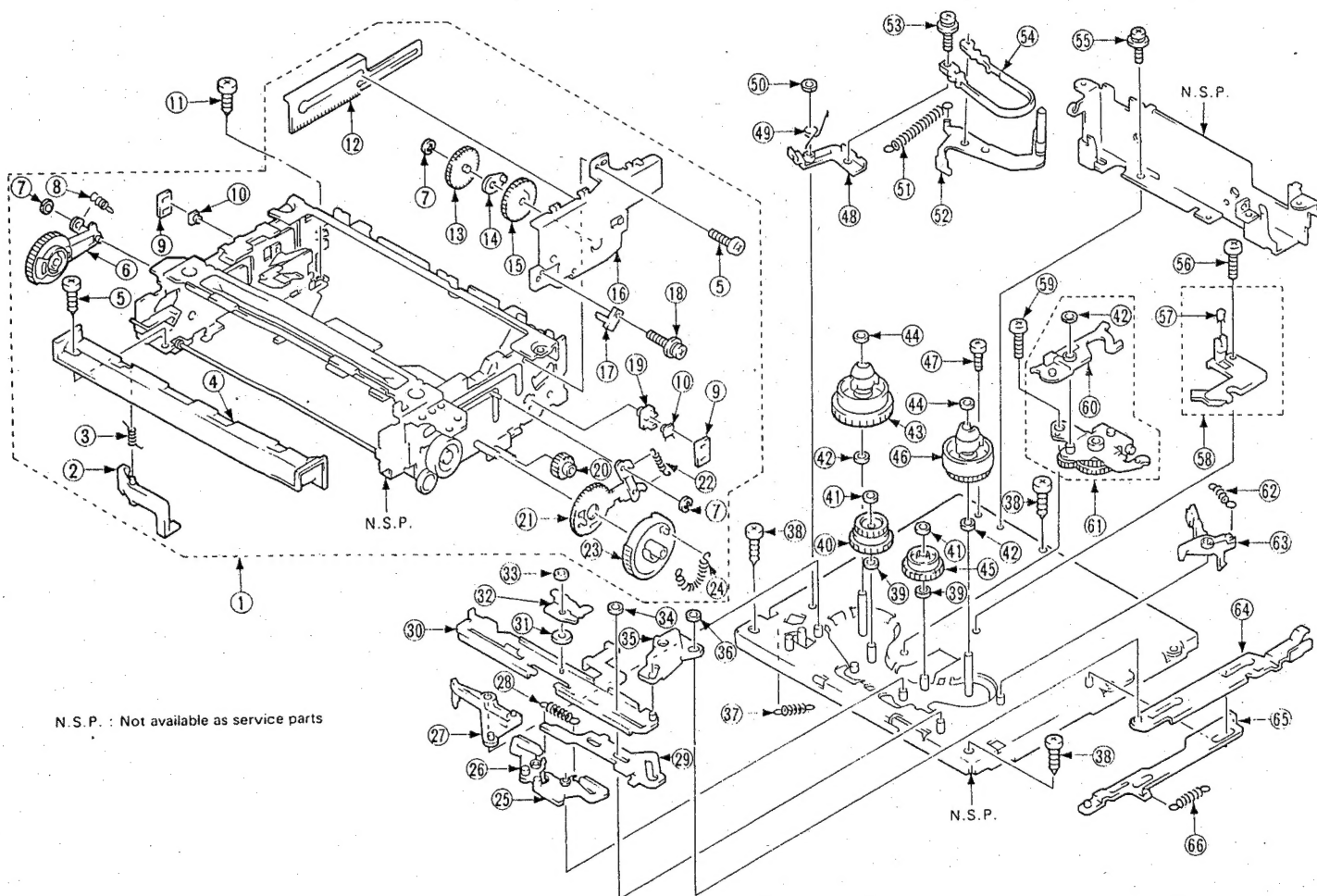
# MECHANISM PARTS 1

Ref. No.	Part No.	Description
1	613 125 5487	COMPL, CASSETTE MECHA
2	613 124 5006	LEVER, SAFETY SW
3	613 125 6149	SPRING SAFETY SW
4	613 022 4064	BOARD, UNDER
5	411 027 1305	SCR S-TPG BIN 2.6×4
6	613 022 0073	ASSY, GEAR LEVER L
7	411 015 9801	RING E 2.3
8	613 022 1643	SPRING, LINK L
9	613 022 0585	LID
10	407 098 3201	PHOTO COUPLER PN150SAN
11	411 001 8702	SCR BIN 3×6
12	613 022 2695	RACK
13	613 022 2633	GEAR, LOCK
14	613 021 9916	ASSY, LEVER PINION
15	613 022 2626	GEAR, PINION
16	613 021 9657	ASSY, BRACKET GEAR
17	613 095 0949	SW, SPECIAL
or	613 006 4479	SPECIAL SWITCH
18	411 106 9208	SCR PAN+SW+W 2×9
19	613 022 0936	HOLDER, TRANSISTOR L
20	613 022 2619	GEAR, IDLER
21	613 022 0097	ASSY, GEAR LEVER R
22	613 022 1674	SPRING LINK R
23	613 022 2596	GEAR, MAIN
24	613 022 1667	SPRING, GEAR MAIN
25	613 137 6380	ASSY, BRAKE, TAKE UP
26	613 137 6373	ASSY, BRAKE, SUPPLY
27	613 084 8871	BRAKE, SUB SUPPLY
28	613 022 1544	SPRING, MAIN BRAKE
or	613 086 2914	SPRING, MAIN BRAKE
29	613 022 2374	SLIDE, ACT BRAKE
30	613 100 4627	ASSY, SLIDE, M PLATE
31	411 130 5009	WASHER, Y 2.1×8×0.2
32	613 099 7432	LEVER, ONE WAY LOCK
33	412 028 3008	SPECIAL WASHER 1.6×4×0.4t
34	411 109 3005	WASHER Y 2.6×5×0.5
35	613 022 2015	LEVER, CONT PLATE
36	412 015 9501	SPECIAL WASHER
37	613 022 1490	SPRING, SUB SUPPLY
38	411 021 7907	SCR S-TPG BIN 4×12
39	412 026 7305	SPECIAL WASHER 2.6×6×0.25
40	613 100 4672	ASSY, GEAR, ONE WAY
41	411 109 1506	WASHER Y 2.1×6×0.25
or	411 109 1407	WASHER Y 2.1×5×0.25
42	412 021 5306	SPECIAL WASHER 3.1×6×0.3
or	412 015 8900	SPECIAL WASHER 3.1×6×0.4
or	412 015 8504	SPECIAL WASHER 3.1×6×0.5
43	613 093 3904	ASSY, REEL, SUPPLY
44	411 109 1605	WASHER Y 2.6×6×0.25
45	613 103 2644	GEAR, REEL TAKE UP
46	613 093 3898	ASSY, REEL, TAKE UP
47	412 030 2402	SPECIAL SCREW
48	613 100 7659	ASSY, LEVER, BRAKE BAND
49	613 105 5728	SPRING, LEVER BRAKE
50	412 015 9600	SPECIAL WASHER
51	613 105 5698	SPRING, LEVER, TENSION
52	613 102 9279	ASSY, LEVER, TENSION

Ref. No.	Part No.	Description
53	411 130 5207	SCR PAN+FLG 2.6×2.4
54	613 100 4573	ASSY, HOLDER, BAND
55	411 046 9702	SCR PAN+SW+W 3×6
56	411 021 3107	SCR S-TPG BIN 2.6×8
57	407 016 7205	LED LN59
58	613 120 9053	COMPL PCB, MC-4
59	412 042 4302	SPECIAL SCREW 2.6×4
60	613 100 4689	ASSY, IDLER
61	613 100 4696	COMPL, IDLER, CLUTCH
62	613 022 1506	SPRING, SUB T
63	613 098 0106	ASSY, BRAKE SUB T
64	613 100 4641	ASSY, SLIDE, ACT PLATE
65	613 021 9992	ASSY, SLIDE, CONT BRAKE
66	613 022 1612	SPRING, RETURN SLIDE



# MECHANISM PARTS 1



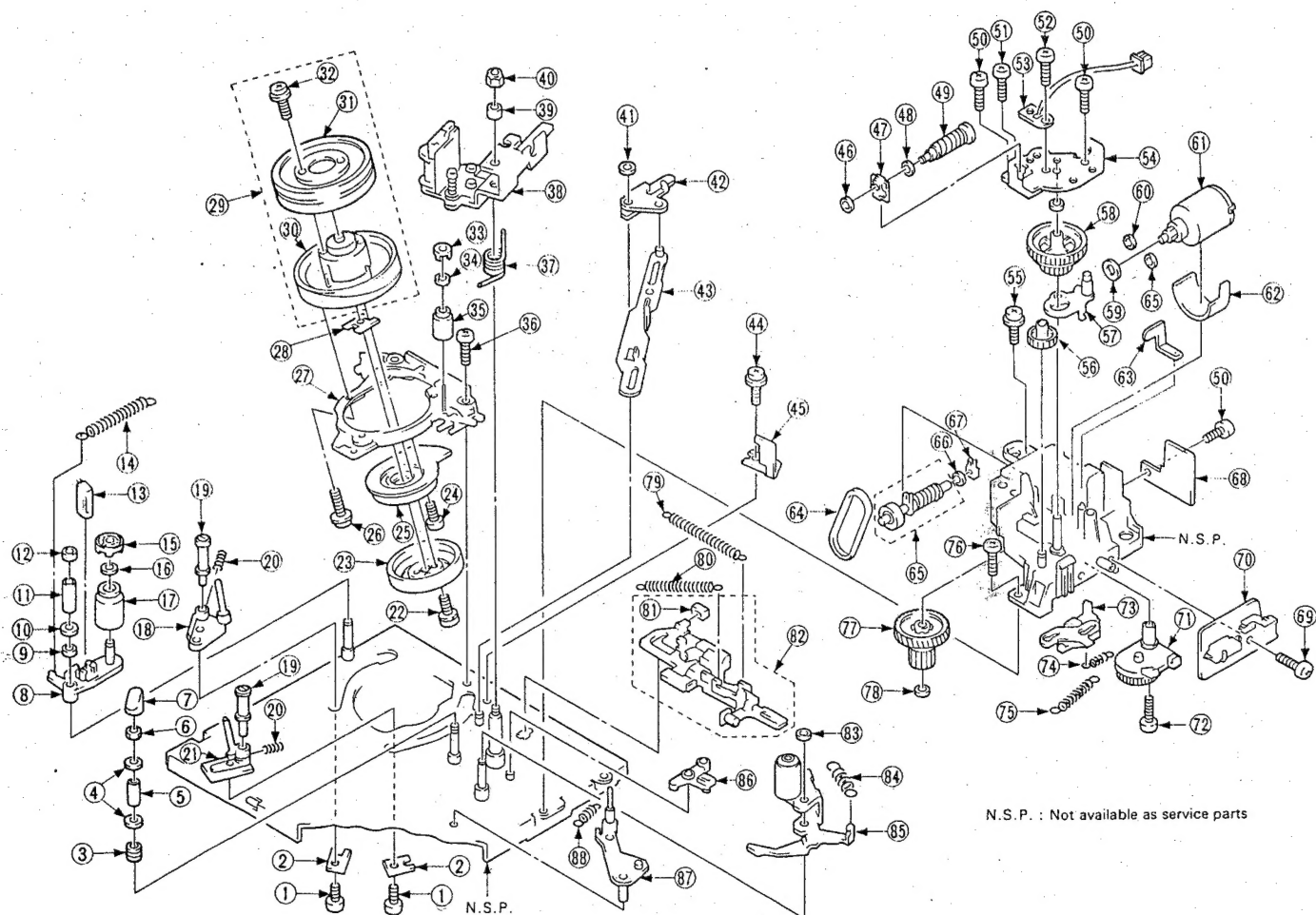
N.S.P. : Not available as service parts

## MECHANISM PARTS 2

Ref. No.	Part No.	Description
1	411 031 1209	SCR BIN 2.6×5
2	613 022 1919	PLATE, GUIDE
3	613 022 1766	SPRING, ADJUST GUIDE
4	613 053 3227	SPECIAL WASHER
5	613 058 3307	TAPE GUIDE
or	613 123 4970	TAPE GUIDE
6	412 026 2607	SPECIAL NUT (M3)
7	613 123 9418	CAP
8	613 136 0389	ASSY, LEVER, FE HEAD
9	411 109 1704	WASHER Y 6.4×10×0.25
10	613 053 3227	SPECIAL WASHER
11	613 058 3307	TAPE GUIDE
or	613 123 4970	TAPE GUIDE
12	412 026 2607	SPECIAL NUT (M3)
13	613 022 4224	HEAD, FULL ERASE
14	613 022 1698	SPRING, ERASE HEAD
15	613 095 3735	BRACKET, IMPEDANCE
16	412 033 3208	WASHER SLIT 1.6×4×0.25
17	613 095 3759	ROLLER, IMPEDANCE
18	613 108 2953	ASSY, BASE, ROLLER S
19	613 022 0233	ASSY, GUIDE, ROLLER
20	411 063 0904	SCR SET HEX-SCT 2×3
21	613 021 9732	ASSY, BASE, ROLLER T
22	411 044 9001	SCR PAN+SW 2.3×6
23	613 022 4019	ROTOR, MOTOR CYL
24	411 044 8301	SCR PAN+SW 2.3×10
or	411 044 9209	SCR PAN+SW 2.3×8
or	412 036 0709	SPECIAL SCREW 2.3×10
25	613 085 7279	STATOR, MOTOR CYL
26	411 047 5000	SCR PAN+FLG 2.6×8
or	412 030 9708	SPECIAL SCREW 2.6×8
27	613 094 4603	ASSY, BASE, CYLINDER
or	613 121 6556	ASSY, BASE, CYLINDER
28	613 081 4036	SPACER, MOTOR
29	613 133 0139	COMPL, CYLINDER 2N4P-Q
30	613 022 0325	ASSY, CYLINDER, LWR4
31	613 133 0122	ASSY, CYLINDER, UPR 2N4P-Q
32	411 038 1608	SCR PAN+W 3×8
33	613 094 4634	BRACKET, IMPEDANCE
34	411 089 6003	WASHER Y 1.6×3.2×0.25
35	613 094 4764	ROLLER, IMPEDANCE
36	411 047 7509	SCR PAN+FLG 3×6
37	613 022 1797	SPRING, ACE HEAD
38	613 021 9640	COMPL, BRACKET, HEAD
39	613 051 4615	SPACER
or	613 110 1692	SLEEVE, ACE HEAD
40	412 015 8207	SPECIAL NUT (M5)
41	411 109 2008	WASHER Y 3.1×8×0.5
42	613 021 9800	ASSY, LEVER, CAM PINCH
43	613 021 9961	ASSY, SLIDE, ACT PINCH
44	411 120 0007	SCR PAN+SW+W 2.6×5
45	613 120 3631	BRACKET, STOPPER
46	613 053 2381	SPECIAL WASHER
47	613 077 3227	HOLDER, WORM
48	613 027 0382	WASHER
49	613 078 8320	ASSY, WORM, FRONT
50	411 023 2801	SCR S-TPG PAN 2.6×6

Ref. No.	Part No.	Description
51	411 021 3107	SCR S-TPG BIN 2.6×8
52	411 040 2303	SCR PAN 2.6×5
53	613 089 4328	ASSY, SENSOR, DEW
54	613 117 0599	BRACKET, HOLDER
55	411 046 8002	SCR PAN+SW+W 2.6×6
56	613 022 2534	GEAR, FRONT LOAD
57	613 094 1206	ASSY, LEVER, FRONT
58	613 134 2910	GEAR, HELICAL FRONT
59	613 077 3616	DAMPER, WORM
60	613 093 8374	DAMPER, MOTOR
61	613 121 9960	ASSY, LOADING MOTOR
62	613 092 9945	DAMPER, MOTOR
63	613 093 9159	PLATE, NUT
64	613 022 2985	BELT, LOADING
65	613 092 9938	ASSY, WORM, LOAD
66	613 027 0627	WASHER 2.1×6×0.5
67	613 092 5886	HOLDER, WORM
or	613 138 8628	HOLDER, WORM
68	613 107 2732	COMPL, PCB, MC-3
69	411 023 2801	SCR S-TPG PAN 2.6×6
70	613 098 2261	HOLDER, HARNESS
71	613 110 0374	ROTARY SWITCH
72	411 126 5303	SCR PAN 2.6×13
73	613 092 9921	ASSY, SLIDE, FRONT
74	613 092 5985	SPRING, LEVER, LOAD
75	613 092 5992	SPRING, LEVER, ACT
76	411 001 8702	SCR BIN 3×6
77	613 077 3579	GEAR, HELICAL
78	412 033 4106	WASHER SLIT 2.6×5×0.5
79	613 022 1575	SPRING, LINK LOCK
80	613 105 5711	SPRING, SLIDE BRAKE
81	613 022 2725	DAMPER
82	613 100 4603	ASSY, SLIDE, CAM
83	411 109 2107	WASHER Y 3.6×6×0.5
84	613 022 1483	SPRING, PINCH ROLLER
85	613 022 0158	COMPL, PINCH ROLLER
86	613 078 8160	COMPL, LEVER, ACT BRAKE
87	613 102 9293	ASSY, LEVER, REV GUIDE
88	613 022 1568	SPRING, REVIEW LEVER

## MECHANISM PARTS 2

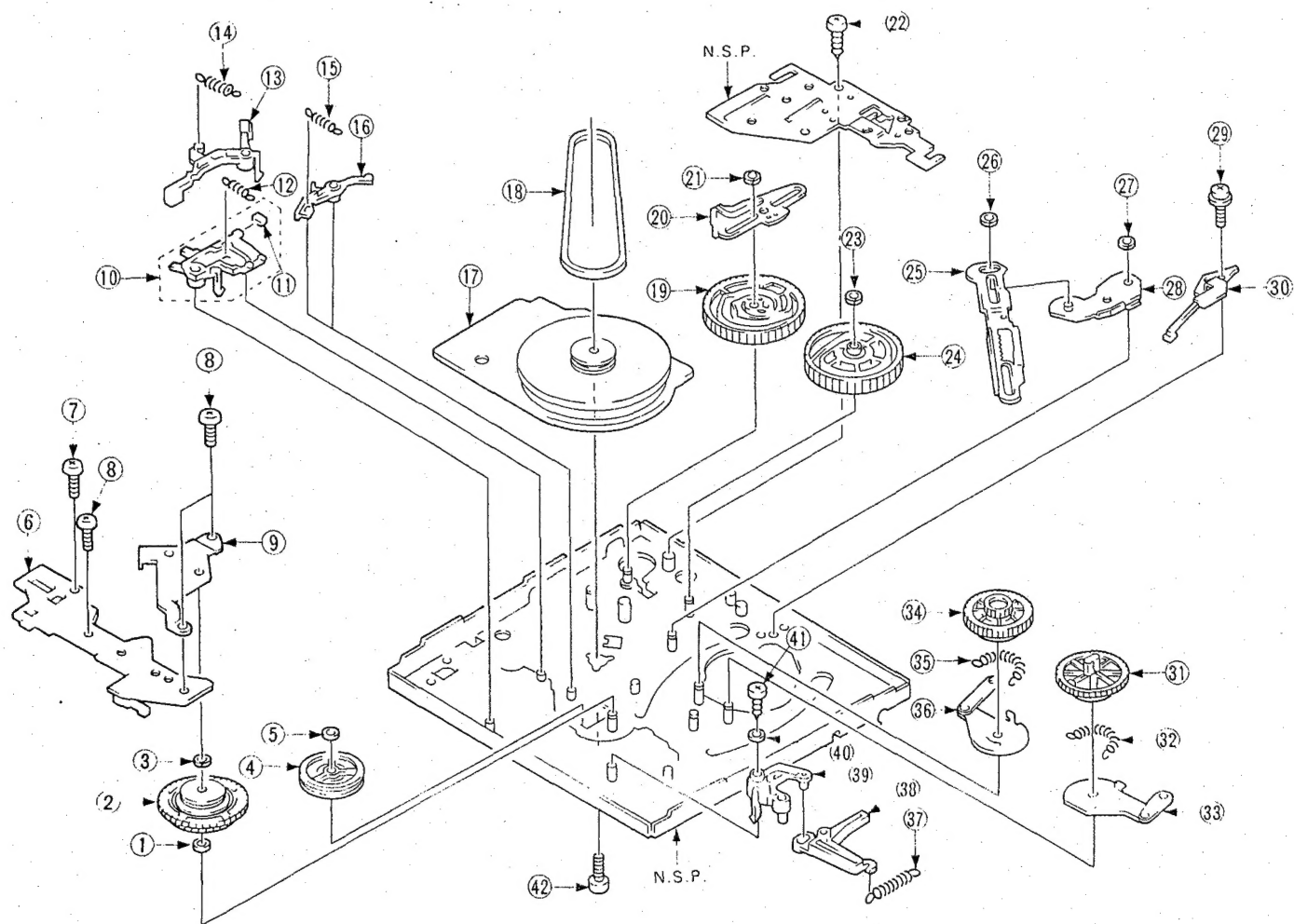


N.S.P. : Not available as service parts

### MECHANISM PARTS 3

Ref. No.	Part No.	Description
1	412 015 8603	SPECIAL WASHER 3.1×6×0.25
2	613 100 4665	ASSY, GEAR, FRICTION
3	412 045 4606	SPECIAL WASHER 2.4×6×0.25
4	613 103 2651	PULLY, REEL
5	412 045 4606	SPECIAL WASHER 2.4×6×0.25
6	613 122 9884	COMPL PCB, MC-1
7	411 100 0300	SCR S-TPG BIN 2.6×5
8	411 021 3107	SCR S-TPG BIN 2.6×8
9	613 103 2538	BRACKET, PULLY
10	613 021 9848	ASSY, LEVER, CLUTCH
11	613 079 1023	DAMPER, LEVER CLUTCH
12	613 022 1520	SPRING, LEVER CLUTCH
13	613 081 7518	ASSY, BRAKE, CAPSTAN
14	613 098 2285	SPRING, CAPSTAN
15	613 022 1711	SPRING, CHANGE CLUTCH
16	613 082 3434	LEVER, CHANGE CLUTCH
17	613 130 9425	MOTOR, CAPSTAN
18	613 093 4031	BELT, REEL DRIVE
19	613 099 7555	CAM, MODE
20	613 021 9978	ASSY, SLIDE, CAM PLATE
21	411 109 2008	WASHER Y 3.1×8×0.5
22	411 021 3107	SCR S-TPG BIN 2.6×8
23	411 109 1902	WASHER Y 3.1×6×0.5
24	613 138 4644	CAM, MAIN
25	613 022 2664	RACK, LOAD
26	411 109 1803	WASHER Y 2.6×6×0.5
27	411 109 2107	WASHER Y 3.6×6×0.5
or	411 109 2206	WASHER Y 3.6×8×0.5
28	613 021 9794	ASSY, LEVER, CAM LOAD
29	411 047 6809	SCR PAN+FLG 3×4
30	613 021 9763	ASSY, EARTH, CYL
31	613 090 6373	GEAR, LOAD S
32	613 022 1704	SPRING, GEAR LOAD S
33	613 021 9862	ASSY, LEVER, LOAD S
34	613 022 2435	GEAR, LOAD TAKE UP
or	613 090 6380	GEAR, LOAD T
35	613 022 1551	SPRING, GEAR LOAD T
36	613 021 9879	ASSY, LEVER, LOAD T
37	613 105 5704	SPRING, REVERSE TENSION
38	613 099 7418	LEVER, RETURN TENSION
39	613 091 3104	ASSY, LEVER CONTROL
40	411 087 6005	WASHER V 2.6×7.5×0.5
41	411 022 8903	SCR S-TPG PAN 2.3×12
42	411 040 2303	SCR PAN 2.6×5

## MECHANISM PARTS 3



N.S.P. : Not available as service parts

## ELECTRICAL PARTS

### NOTES :

\* Materials of capacitors and resistors are abbreviated as follows ;

#### 《Capacitors》

CERAMIC ..... Ceramic Capacitor  
 POLYESTER ..... Polyester Capacitor  
 MT-POLYEST ..... Metallized Polyester Capacitor  
 POLYPRO ..... Polypropylene Capacitor  
 MT-COMPO ..... Metallized Composite Capacitor  
 ELECT ..... Electrolytic Capacitor  
 NP-ELECT ..... Non-Polarized Electrolytic Capacitor  
 OS-SOLID ..... Aluminium Solid Capacitors With Organic  
 Semiconductive Electrolytic Capacitor  
 DL-ELECT ..... Double Layered Electrolytic Capacitor

#### 《Resistors》

CARBON ..... Carbon Resistor  
 FUSIBLE RES ..... Fusible Resistor

\* Value symbols are abbreviated as follows ;

P ..... pF  
 U .....  $\mu$ F  
 M ..... mH

\* Tolerance of capacitors, resistors and Coils (Inductors) are noted with follow symbols ;

D .....  $\pm 0.5\%$   
 G .....  $\pm 2\%$   
 J .....  $\pm 5\%$   
 K .....  $\pm 10\%$   
 M .....  $\pm 20\%$   
 N .....  $\pm 30\%$   
 Z .....  $+80 - 20\%$

## CP-A BOARD

Location	Part No.	Description
	613 134 8776	COMPL PCB, CP-A
	613 134 8820	COMPL PCB, SY-A
C3001	403 038 1603	ELECT 100U M 6.3V
or	403 038 2402	ELECT 100U M 6.3V
C3002	403 121 9509	CERAMIC 0.1U Z 50V
C3003	403 069 1207	CERAMIC 1000P K 50V
C3004	403 135 5801	ELECT 0.1U M 50V
or	403 047 9706	ELECT 0.1U M 50V
C3005	403 121 9509	CERAMIC 0.1U Z 50V
C3006	403 071 6207	CERAMIC 220P K 50V
C3008	403 001 1906	CERAMIC 0.01U M 16V
C3009	403 121 9509	CERAMIC 0.1U Z 50V
C3010	403 001 1906	CERAMIC 0.01U M 16V
C3011	403 069 1207	CERAMIC 1000P K 50V
C3012	403 038 1603	ELECT 100U M 6.3V
or	403 038 2402	ELECT 100U M 6.3V
C3013	403 155 2804	DL-ELECT 0.047F Z 5.5V
C3014	403 001 1906	CERAMIC 0.01U M 16V
C3015	403 001 1906	CERAMIC 0.01U M 16V
D3005	407 099 5303	ZENER DIODE MTZJ5.6B-T-77
or	407 051 7000	ZENER DIODE GZS5.6Z-BT
D3006	407 063 9504	ZENER DIODE MTZJ8.2B-T-77
or	407 070 8101	ZENER DIODE GZS8.2Y-BT
D3007	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3008	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3009	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3010	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
IC301	410 146 6406	IC LC66P516B-P4933
IC302	409 073 8003	IC M51953AL
IC303	409 114 4803	IC LB1641
IC304	409 018 3902	IC LA6393D

Location	Part No.	Description
Q3001	405 023 5009	TR 2SD400-E-MP-AE
or	405 023 5306	TR 2SD400-F-MP
Q3003	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
R3001	402 036 3701	FUSIBLE RES 3.3 JA 1/2W
R3004	401 012 6903	CARBON 10K JA 1/4W
R3006	401 016 4707	CARBON 22K JA 1/4W
R3007	401 014 6000	CARBON 150K JA 1/4W
R3008	401 014 6000	CARBON 150K JA 1/4W
R3009	401 020 2805	CARBON 47K JA 1/4W
R3010	401 022 7105	CARBON 750 JA 1/4W
R3011	401 012 6903	CARBON 10K JA 1/4W
R3012	401 012 6903	CARBON 10K JA 1/4W
R3013	401 013 7206	CARBON 120K JA 1/4W
R3014	401 023 7807	CARBON 91K JA 1/4W
R3015	401 018 4804	CARBON 33K JA 1/4W
R3016	401 017 2702	CARBON 27K JA 1/4W
R3017	401 016 3700	CARBON 2.2K JA 1/4W
R3018	401 017 3709	CARBON 270K JA 1/4W
R3019	401 012 6903	CARBON 10K JA 1/4W
R3020	401 012 5609	CARBON 1K JA 1/4W
R3021	401 012 5609	CARBON 1K JA 1/4W
R3022	401 012 5609	CARBON 1K JA 1/4W
R3023	401 020 1907	CARBON 4.7K JA 1/4W
R3024	401 016 0402	CARBON 200K JA 1/4W
R3025	401 016 0402	CARBON 200K JA 1/4W
R3026	401 012 5609	CARBON 1K JA 1/4W
R3027	401 012 5609	CARBON 1K JA 1/4W
R3028	401 012 5609	CARBON 1K JA 1/4W
R3029	401 020 1907	CARBON 4.7K JA 1/4W
R3030	401 020 1907	CARBON 4.7K JA 1/4W
R3031	401 020 1907	CARBON 4.7K JA 1/4W
R3032	401 012 5609	CARBON 1K JA 1/4W
R3033	401 012 5609	CARBON 1K JA 1/4W
R3034	401 012 5609	CARBON 1K JA 1/4W
R3035	401 014 6000	CARBON 150K JA 1/4W
R3043	401 012 5609	CARBON 1K JA 1/4W
R3044	401 012 5609	CARBON 1K JA 1/4W

Location	Part No.	Description
R3045	401 012 5609	CARBON 1K JA 1/4W
R3046	401 012 6903	CARBON 10K JA 1/4W
R3057	401 023 4509	CARBON 820K JA 1/4W
R3065	401 012 5609	CARBON 1K JA 1/4W
R3066	401 016 5704	CARBON 220K JA 1/4W
R3067	401 016 5704	CARBON 220K JA 1/4W
R3068	401 016 5704	CARBON 220K JA 1/4W
R3069	401 016 5704	CARBON 220K JA 1/4W
R3070	401 020 1907	CARBON 4.7K JA 1/4W
R3071	401 012 5609	CARBON 1K JA 1/4W
R3072	401 012 5609	CARBON 1K JA 1/4W
R3073	401 012 6903	CARBON 10K JA 1/4W
XF301	613 079 7414	CERAMIC RESONATOR
or	613 116 5397	RESONATOR, CERAMIC 4.0MHZ
or	613 111 0793	RESONATOR, CERAMIC 4.0MHZ
or	613 122 1437	RESONATOR, CERAMIC 4.0MHZ
or	613 124 2142	RESONATOR, CERAMIC 4MHZ
	613 134 8752	COMPL PCB, AD-A
C2001	403 003 3700	CERAMIC 0.022U Z 25V
C2004	403 075 4506	CERAMIC 820P K 50V
C2005	403 049 0503	ELECT 1U M 50V
or	403 049 1401	ELECT 1U M 50V
C2006	403 129 5602	ELECT 33U M 10V
or	403 040 8607	ELECT 33U M 10V
C2007	403 150 0201	CERAMIC 0.018U K 16V
or	403 150 0300	CERAMIC 0.018U K 16V
C2008	403 130 2904	ELECT 0.47U M 50V
or	403 048 7701	ELECT 0.47U M 50V
C2009	403 121 2104	ELECT 22U M 10V
or	403 040 2803	ELECT 22U M 10V
C2010	403 001 7601	CERAMIC 4700P M 16V
C2011	403 107 9905	ELECT 10U M 16V
or	403 042 0401	ELECT 10U M 16V
C2012	403 134 9602	ELECT 47U M 16V
or	403 044 0300	ELECT 47U M 16V
C2013	403 191 8600	ELECT 4.7U M 25V
or	403 193 5300	ELECT 4.7U M 25V
C2014	403 003 2406	CERAMIC 0.022U J 25V
or	403 102 2802	CERAMIC 0.022U J 25V
C2017	403 121 3002	ELECT 4.7U M 25V
or	403 047 1601	ELECT 4.7U M 25V
C2018	403 002 1905	CERAMIC 0.01U K 25V
or	403 102 0808	CERAMIC 0.01U K 25V
C2019	403 047 1007	ELECT 4.7U M 25V
C2021	403 001 2309	CERAMIC 0.01U N 16V
C2022	403 001 2309	CERAMIC 0.01U N 16V
C2023	403 071 6207	CERAMIC 220P K 50V
C2024	403 082 4209	POLYPRO 6800P J 100V
or	403 100 8301	POLYP 6800P J 100V
C2025	403 191 8808	ELECT 2.2U M 50V
or	403 193 6802	ELECT 2.2U M 50V
C2029	403 121 2609	ELECT 220U M 16V
or	403 043 1100	ELECT 220U M 16V

Location	Part No.	Description
C2030	403 129 5602	ELECT 33U M 10V
or	403 040 8607	ELECT 33U M 10V
C2031	403 129 5602	ELECT 33U M 10V
or	403 040 8607	ELECT 33U M 10V
C2033	403 130 2904	ELECT 0.47U M 50V
or	403 048 7701	ELECT 0.47U M 50V
C2034	403 168 6103	MT-POLYEST 0.1U J 50V
C2035	403 069 1207	CERAMIC 1000P K 16V
IC201	409 133 1401	IC LA7294
L2001	613 014 3532	HF CHOKE 10000UH J
L2002	613 014 2870	COIL, INDUCTOR 560UH K
L2003	613 014 2870	COIL, INDUCTOR 560UH K
Q2001	405 018 0101	TR 2SC3331-T-AA
or	405 018 0200	TR 2SC3331-U-AA
R2001	401 021 4006	CARBON 56K JA 1/4W
R2002	401 017 1705	CARBON 2.7K JA 1/4W
R2019	401 023 0600	CARBON 82 JA 1/4W
R2020	401 017 1705	CARBON 2.7K JA 1/4W
R2021	401 018 5702	CARBON 330K JA 1/4W
R2022	401 021 8905	CARBON 6.2K JA 1/4W
R2023	401 016 6404	CARBON 2.2M JA 1/4W
R2024	401 015 3701	CARBON 18K JA 1/4W
R2025	401 017 2702	CARBON 27K JA 1/4W
R2026	401 022 7600	CARBON 7.5K JA 1/4W
R2027	401 013 5202	CARBON 1.2K JA 1/4W
R2032	401 016 4707	CARBON 22K JA 1/4W
R2034	401 012 6903	CARBON 10K JA 1/4W
R2035	401 014 5102	CARBON 15K JA 1/4W
R2036	401 019 9501	CARBON 47 JA 1/4W
R2037	401 021 7007	CARBON 6.8 JA 1/4W
R2038	401 012 4404	CARBON 100 JA 1/4W
R2039	401 012 5609	CARBON 1K JA 1/4W
R2043	401 015 2605	CARBON 1.8K JA 1/4W
R2044	401 018 2701	CARBON 330 JA 1/4W
T2001	613 098 6023	TRANS, OCS 70KHZ
or	621 019 9596	70KHZ OCS TRANS
VR201	613 097 7915	VR, SEMI 100KB
or	613 001 9097	SEMI VR 100KB
or	613 112 4820	VR, SEMI 100KB
or	613 120 8551	VR, SEMI 100KB
VR202	613 097 7908	VR, SEMI 10KB
or	613 079 2532	VR, SEMI 10KB
or	613 001 9035	SEMI VR 10KB
or	613 120 8544	VR, SEMI 10KB
VR203	613 097 7892	VR, SEMI 1KB
or	613 001 8977	VR, SEMI 1KB
or	613 079 2552	SEMI VR 1KB
or	613 120 8537	VR, SEMI 1KB



Location	Part No.	Description
VR204	613 097 7892	VR, SEMI 1KB
or	613 079 2525	VR, SEMI 1KB
or	613 120 8537	VR, SEMI 1KB
or	613 001 8977	SEMI VR 1KB
	613 134 8813	COMPL PCB, TM-A
C7301	403 121 9509	CERAMIC 0.1U Z 50V
C7302	403 125 5606	ELECT 100U M 16V
or	403 042 3600	ELECT 100U M 16V
C7313	403 121 9509	CERAMIC 0.1U Z 50V
D7301	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7302	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7303	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7304	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7305	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7306	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7307	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7308	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7309	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7310	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7311	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7312	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7313	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7314	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7315	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7316	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7317	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7318	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7319	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7320	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7321	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7322	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT

Location	Part No.	Description
D7323	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7324	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7340	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7341	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7342	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7343	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7344	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7345	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7346	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7347	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
IC731	409 020 3204	IC LB1475
IC733	409 020 9107	IC LC4069UB
or	409 207 2006	IC MLC4069UB
L7301	613 015 6730	COIL, INDUCTOR 100UHK
or	613 014 8766	HF CHOKE
L7303	613 015 6730	COIL, INDUCTOR 100UHK
or	613 014 8766	HF CHOKE
Q7301	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q7302	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q7303	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
R7301	401 012 6903	CARBON 10K JA 1/4W
R7302	401 012 5609	CARBON 1K JA 1/4W
R7303	401 012 6903	CARBON 10K JA 1/4W
R7304	401 012 5609	CARBON 1K JA 1/4W
R7305	401 012 6903	CARBON 10K JA 1/4W
R7306	401 012 5609	CARBON 1K JA 1/4W
R7307	401 012 6903	CARBON 10K JA 1/4W
R7308	401 012 5609	CARBON 1K JA 1/4W
R7309	401 012 5609	CARBON 1K JA 1/4W
R7310	401 020 1907	CARBON 4.7K JA 1/4W
R7340	401 012 6903	CARBON 10K JA 1/4W
R7341	401 012 8006	CARBON 100K JA 1/4W
R7342	401 013 1303	CARBON 1.1K JA 1/4W
R7343	401 018 7904	CARBON 3.6K JA 1/4W
R7344	401 013 1303	CARBON 1.1K JA 1/4W
R7345	401 018 7904	CARBON 3.6K JA 1/4W
R7346	401 013 1303	CARBON 1.1K JA 1/4W
R7347	401 018 7904	CARBON 3.6K JA 1/4W
R7348	401 012 6903	CARBON 10K JA 1/4W



Location	Part No.	Description
	613 134 8790	COMPL PCB, SV-A
C3501	403 168 6103	MT-POLYEST 0.1U J 50V
or	403 067 5603	MT-COMPO 0.1U J 50V
C3502	403 168 6103	MT-POLYEST 0.1U J 50V
or	403 067 5603	MT-COMPO 0.1U J 50V
C3503	403 168 6103	MT-POLYEST 0.1U J 50V
or	403 067 5603	MT-COMPO 0.1U J 50V
C3504	403 063 1302	POLYESTER 0.068U J 50V
or	403 063 1609	POLYESTER 0.068U J 50V
C3505	403 061 3308	POLYESTER 0.039U J 50V
or	403 061 3605	POLYESTER 0.039U J 50V
C3506	403 003 2802	CERAMIC 0.022U K 25V
or	403 102 3007	CERAMIC 0.022U K 25V
C3507	403 059 5109	POLYESTER 0.022U J 50V
or	403 059 5505	POLYESTER 0.022U J 50V
C3508	403 062 9200	POLYESTER 6800P J 50V
or	403 062 9507	POLYESTER 6800P J 50V
C3510	403 184 9805	MT-POLYEST 0.22U J 50V
or	403 067 6709	MT-COMPO 0.22U J 50V
C3512	403 129 0300	CERAMIC 0.01U J 16V
or	403 214 0307	CERAMIC 0.01U J 16V
C3513	403 002 7006	CERAMIC 1500P J 25V
or	403 217 3909	CERAMIC 1500P J 16V
C3514	403 217 4005	CERAMIC 2200P J 16V
or	403 003 1102	CERAMIC 2200P J 25V
C3515	403 120 8602	CERAMIC 0.015U J 16V
or	403 214 0505	CERAMIC 0.015U J 16V
C3516	403 217 4401	CERAMIC 6800P J 16V
or	403 214 0109	CERAMIC 6800P J 16V
C3517	403 129 0300	CERAMIC 0.01U J 16V
or	403 214 0307	CERAMIC 0.01U J 16V
C3518	403 145 8601	ELECT 22U M 16V
or	403 042 8803	ELECT 22U M 16V
C3519	403 145 8601	ELECT 22U M 16V
or	403 042 8803	ELECT 22U M 16V
C3520	403 145 8601	ELECT 22U M 16V
or	403 042 8803	ELECT 22U M 16V
C3521	403 145 8601	ELECT 22U M 16V
or	403 042 8803	ELECT 22U M 16V
C3522	403 069 1207	CERAMIC 1000P K 50V
C3523	403 069 1207	CERAMIC 1000P K 50V
C3524	403 059 5109	POLYESTER 0.022U J 50V
or	403 059 5505	POLYESTER 0.022U J 50V
C3525	403 061 7405	POLYESTER 4700P J 50V
or	403 061 7702	POLYESTER 4700P J 50V
C3526	403 061 7405	POLYESTER 4700P J 50V
or	403 061 7702	POLYESTER 4700P J 50V
C3527	403 071 6207	CERAMIC 220P K 50V
C3528	403 121 9509	CERAMIC 0.1U Z 50V
C3529	403 038 1603	ELECT 100U M 6.3V
or	403 038 2402	ELECT 100U M 6.3V
C3530	403 038 1603	ELECT 100U M 6.3V
or	403 038 2402	ELECT 100U M 6.3V
C3531	403 121 9509	CERAMIC 0.1U Z 50V
C3532	403 056 9605	POLYESTER 0.01U J 50V
or	403 057 0007	POLYESTER 0.01U J 50V

Location	Part No.	Description
C3533	403 184 9805	MT-POLYEST 0.22U J 50V
or	403 067 6709	MT-COMPO 0.22U J 50V
C3534	403 071 6207	CERAMIC 220P K 50V
C3535	403 057 6900	POLYESTER 0.012U J 50V
or	403 057 7105	POLYESTER 0.012U J 50V
C3536	403 043 4408	ELECT 33U M 16V
or	403 043 5306	ELECT 33U M 16V
C3537	403 121 9509	CERAMIC 0.1U Z 50V
C3538	403 004 4607	CERAMIC 0.068U K 25V
or	403 097 4904	CERAMIC 0.068U K 25V
C3539	403 168 6103	MT-POLYEST 0.1U J 50V
or	403 067 5603	MT-COMPO 0.1U J 50V
C3540	403 062 9200	POLYESTER 6800P J 50V
or	403 062 9507	POLYESTER 6800P J 50V
C3541	403 038 1603	ELECT 100U M 6.3V
or	403 038 2402	ELECT 100U M 6.3V
C3542	403 168 6103	MT-POLYEST 0.1U J 50V
C3543	403 154 2102	NP-ELECT 1U M 50V
or	403 193 3207	NP-ELECT 1U M 50V
C3544	403 154 2102	NP-ELECT 1U M 50V
or	403 193 3207	NP-ELECT 1U M 50V
C3545	403 108 0010	ELECT 0.22U M 50V
or	403 048 3218	ELECT 0.22U M 50V
C3546	403 154 2102	NP-ELECT 1U M 50V
or	403 193 3207	NP-ELECT 1U M 50V
C3547	403 001 1906	CERAMIC 0.01U M 16V
C3548	403 001 1906	CERAMIC 0.01U M 16V
C3549	403 001 1906	CERAMIC 0.01U M 16V
C3550	403 001 1906	CERAMIC 0.01U M 16V
C3551	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C3552	403 163 6009	NP-ELECT 33U M 16V
or	403 155 9308	NP-ELECT 33U M 16V
C3553	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C3554	403 074 9205	CERAMIC 680P K 50V
C3556	403 069 1207	CERAMIC 1000P K 50V
C3557	403 069 1207	CERAMIC 1000P K 50V
C3558	403 060 7505	POLYESTER 0.033U J 50V
or	403 060 7802	POLYESTER 0.033U J 50V
C3559	403 121 9509	CERAMIC 0.1U Z 50V
C3560	403 038 1603	ELECT 100U M 6.3V
or	403 038 2402	ELECT 100U M 6.3V
C3561	403 022 7703	CERAMIC 33P J 50V
C3562	403 001 1906	CERAMIC 0.01U M 16V
C3563	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C3566	403 068 9402	CERAMIC 100P K 50V
C3570	403 069 1207	CERAMIC 1000P K 50V
C3571	403 060 5303	POLYESTER 3300P J 50V
or	403 060 5600	POLYESTER 3300P J 50V
D3501	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3502	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT

Location	Part No.	Description
D3503	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3504	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3514	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3515	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3517	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3518	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3519	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3520	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3521	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3522	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3523	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3524	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3525	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3526	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3527	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3528	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D3531	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
IC351	409 281 1100	IC LC7418-8553
IC352	409 211 0500	IC LC9108B-385
IC353	409 178 3200	IC LA7124
IC354	409 003 9704	IC BU4538B
IC356	409 120 7508	IC BU4053B
IC357	409 020 7202	IC LC4013B
IC358	409 111 9801	IC BU4030B
IC359	409 120 7508	IC BU4053B
Q3501	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q3502	405 003 7603	TR 2SA1345-AC
or	405 000 2205	TR DTA144ES-DCTP
Q3503	405 003 7603	TR 2SA1345-AC
or	405 000 2205	TR DTA144ES-DCTP
Q3504	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q3505	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP

Location	Part No.	Description
Q3506	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
or	405 019 2807	TR 2SC536-F-SPA-AC
Q3507	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
or	405 019 2807	TR 2SC536-F-SPA-AC
Q3508	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q3509	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
or	405 019 2807	TR 2SC536-F-SPA-AC
Q3510	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q3511	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q3512	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q3513	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
R3501	401 012 6903	CARBON 10K JA 1/4W
R3502	401 020 2805	CARBON 47K JA 1/4W
R3503	401 019 2908	CARBON 39K JA 1/4W
R3504	401 012 5609	CARBON 1K JA 1/4W
R3506	401 013 7206	CARBON 120K JA 1/4W
R3507	401 012 6903	CARBON 10K JA 1/4W
R3508	401 017 3709	CARBON 270K JA 1/4W
R3510	401 015 4609	CARBON 180K JA 1/4W
R3512	401 020 1907	CARBON 4.7K JA 1/4W
R3513	401 020 1907	CARBON 4.7K JA 1/4W
R3514	401 016 5704	CARBON 220K JA 1/4W
R3515	401 016 5704	CARBON 220K JA 1/4W
R3516	401 013 7206	CARBON 120K JA 1/4W
R3517	401 016 5704	CARBON 220K JA 1/4W
R3518	401 012 6903	CARBON 10K JA 1/4W
R3521	401 012 5609	CARBON 1K JA 1/4W
R3522	401 017 2702	CARBON 27K JA 1/4W
R3523	401 014 6000	CARBON 150K JA 1/4W
R3524	401 017 2702	CARBON 27K JA 1/4W
R3525	401 020 2805	CARBON 47K JA 1/4W
R3526	401 020 2805	CARBON 47K JA 1/4W
R3527	401 018 5702	CARBON 330K JA 1/4W
R3528	401 020 3802	CARBON 470K JA 1/4W
R3529	401 012 8006	CARBON 100K JA 1/4W
R3530	401 012 8006	CARBON 100K JA 1/4W
R3531	401 018 4804	CARBON 33K JA 1/4W
R3532	401 012 8006	CARBON 100K JA 1/4W
R3533	401 022 8003	CARBON 75K JA 1/4W
R3534	401 022 8003	CARBON 510 JA 1/4W
R3535	401 019 2908	CARBON 39K JA 1/4W
R3536	401 019 2908	CARBON 39K JA 1/4W
R3537	401 012 5609	CARBON 1K JA 1/4W
R3538	401 020 1907	CARBON 4.7K JA 1/4W
R3539	401 012 5609	CARBON 1K JA 1/4W

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Location	Part No.	Description
R3540	401 021 4006	CARBON 56K JA 1/4W
R3541	401 012 4404	CARBON 100 JA 1/4W
R3542	401 012 8006	CARBON 100K JA 1/4W
R3543	401 012 5609	CARBON 1K JA 1/4W
R3544	401 012 5609	CARBON 1K JA 1/4W
R3545	401 012 5609	CARBON 1K JA 1/4W
R3546	401 012 5609	CARBON 1K JA 1/4W
R3547	401 020 3802	CARBON 470K JA 1/4W
R3548	401 012 5609	CARBON 1K JA 1/4W
R3549	401 016 5704	CARBON 220K JA 1/4W
R3550	401 022 3008	CARBON 6.8K JA 1/4W
R3551	401 013 5202	CARBON 1.2K JA 1/4W
R3552	401 012 8006	CARBON 100K JA 1/4W
R3553	401 012 6903	CARBON 10K JA 1/4W
R3554	401 014 6000	CARBON 150K JA 1/4W
R3555	401 020 2805	CARBON 47K JA 1/4W
R3556	401 012 8006	CARBON 100K JA 1/4W
R3557	401 012 8006	CARBON 100K JA 1/4W
R3558	401 017 2702	CARBON 27K JA 1/4W
R3559	401 016 3700	CARBON 2.2K JA 1/4W
R3560	401 016 3700	CARBON 2.2K JA 1/4W
R3561	401 016 3700	CARBON 2.2K JA 1/4W
R3562	401 016 3700	CARBON 2.2K JA 1/4W
R3563	401 012 8006	CARBON 100K JA 1/4W
R3564	401 021 9902	CARBON 620K JA 1/4W
R3565	401 012 8006	CARBON 100K JA 1/4W
R3566	401 012 8006	CARBON 100K JA 1/4W
R3567	401 014 6000	CARBON 150K JA 1/4W
R3568	401 020 7800	CARBON 510 JA 1/4W
R3569	401 020 7800	CARBON 510 JA 1/4W
R3570	401 018 7508	CARBON 360 JA 1/4W
R3571	401 016 6404	CARBON 1M JA 1/4W
R3572	401 012 6903	CARBON 10K JA 1/4W
R3573	401 012 6903	CARBON 10K JA 1/4W
R3574	401 012 9201	CARBON 1M JA 1/4W
R3575	401 020 3802	CARBON 470K JA 1/4W
R3577	401 022 4005	CARBON 68K JA 1/4W
R3578	401 022 4005	CARBON 68K JA 1/4W
R3579	401 020 1907	CARBON 4.7K JA 1/4W
R3581	401 012 5609	CARBON 1K JA 1/4W
R3582	401 016 6404	CARBON 2.2M JA 1/4W
R3583	401 016 6404	CARBON 2.2M JA 1/4W
R3584	401 012 6903	CARBON 10K JA 1/4W
R3585	401 012 8006	CARBON 100K JA 1/4W
VR353	613 097 7915	VR, SEMI 100KB
or	613 112 4820	VR, SEMI 100KB
or	613 120 8551	VR, SEMI 100KB
or	613 001 9097	SEMI VR
VR354	613 097 7915	VR, SEMI 100KB
or	613 001 9097	SEMI VR
or	613 112 4820	VR, SEMI 100KB
or	613 120 8551	VR, SEMI 100KB

Location	Part No.	Description
	613 134 8523	COMPL PCB, TB-1
C8501	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C8502	403 039 2609	ELECT 47U M 6.3V
or	403 039 3200	ELECT 47U M 6.3V
C8503	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C8504	403 068 9402	CERAMIC 100P K 50V
C8505	403 121 9509	CERAMIC 0.1U Z 50V
C8506	403 004 4607	CERAMIC 0.068U K 25V
or	403 097 4904	CERAMIC 0.068U K 25V
C8507	403 069 1207	CERAMIC 1000P K 50V
C8508	403 069 1207	CERAMIC 1000P K 50V
C8509	403 069 1207	CERAMIC 1000P K 50V
C8510	403 069 1207	CERAMIC 1000P K 50V
C8511	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C8512	403 069 1207	CERAMIC 1000P K 50V
C8513	403 069 1207	CERAMIC 1000P K 50V
D8501	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
D8502	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
D8503	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
D8504	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
D8505	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
D8506	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
D8507	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77

# TM-1 BOARD

Location	Part No.	Description
D8508	407 053 6803	ZENER DIODE MTZ5.6C-T-77
or	407 051 7000	ZENER DIODE GZS5.6Z-BT
or	407 051 6904	ZENER DIODE GZS5.6Y-BT
or	407 053 6704	ZENER DIODE MTZ5.6B-T-77
or	407 053 6605	ZENER DIODE MTZ5.6A-T-77
IC851	409 018 4909	IC LA6458S
R8501	401 020 2805	CARBON 47K JA 1/4W
R8502	401 019 9501	CARBON 47 JA 1/4W
R8503	401 012 6903	CARBON 10K JA 1/4W
R8504	401 012 6903	CARBON 10K JA 1/4W
R8505	401 012 6903	CARBON 10K JA 1/4W
R8506	401 012 8006	CARBON 100K JA 1/4W
R8507	401 018 4804	CARBON 33K JA 1/4W
R8508	401 012 4404	CARBON 100 JA 1/4W
R8509	401 014 4006	CARBON 1.5K JA 1/4W
R8510	401 022 6702	CARBON 75 JA 1/4W
VR851	613 135 2506	VR, ROTARY 100KB
JK851	613 091 1100	SOCKET, BNC, VIDEO OUT
JK852	613 091 1100	SOCKET, BNC, VIDEO IN
JK853	613 140 0313	JACK, RCA, AUDIO OUT
JK854	613 140 0313	JACK, RCA, AUDIO IN
JK855	613 087 2791	JACK, MIC
JK856	613 091 4071	JACK, REMOTE CONTROL

Location	Part No.	Description
	613 134 8493	COMPL PCB, TM-1
A7101	613 115 9792	FLUORESCENT TUBE
or	613 117 0629	FLUORESCENT TUBE
C7101	403 001 1906	CERAMIC 0.01U M 16V
C7102	403 038 5403	ELECT 22U M 6.3V
or	403 038 5908	ELECT 22U M 6.3V
C7103	403 001 1906	CERAMIC 0.01U M 16V
C7104	403 039 2609	ELECT 47U M 6.3V
or	403 039 3200	ELECT 47U M 6.3V
C7105	403 001 1906	CERAMIC 0.01U M 16V
C7106	403 017 0108	CERAMIC 20P J 50V
C7107	403 017 0108	CERAMIC 20P J 50V
C7108	403 135 3817	ELECT 330U M 6.3V
or	403 039 0615	ELECT 330U M 6.3V
C7109	403 001 1906	CERAMIC 0.01U M 16V
C7110	403 193 8905	ELECT 22U M 50V
or	403 193 7205	ELECT 22U M 50V
D7101	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7102	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7103	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7104	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7105	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7106	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7107	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7108	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7109	407 120 5807	DIODE AK04-V2
D7110	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7115	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7116	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7117	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7118	407 012 4406	DIODE 1SS133-T-77
or	407 007 9904	DIODE GMA01-BT
D7120	407 097 0201	LED PR5505S
D7121	407 051 7901	ZENER DIODE GZS7.5Z-BT
or	407 051 7802	ZENER DIODE GZS7.5Y-BT
D7122	407 051 5303	ZENER DIODE GZS24Z-BT
or	407 070 3502	ZENER DIODE GZS24Y-BT
IC711	409 288 6900	IC M50957-281SP
IC712	409 148 5005	IC M6M80021P
IC713	409 243 4101	IC MN1380-L

Location	Part No.	Description
Q7101	405 000 3103	TR DTC114ES-DCTP
or	405 018 2808	TR 2SC3402-AC
RB711	613 079 5878	R-NETWORK, 10Kx4
R7101	401 012 5609	CARBON 1K JA 1/4W
R7102	401 012 5609	CARBON 1K JA 1/4W
R7103	401 012 5609	CARBON 1K JA 1/4W
R7104	401 012 5609	CARBON 1K JA 1/4W
R7105	401 017 0708	CARBON 270 JA 1/4W
R7106	401 012 6903	CARBON 10K JA 1/4W
R7107	401 012 6903	CARBON 10K JA 1/4W
R7108	401 012 6903	CARBON 10K JA 1/4W
R7109	401 012 5609	CARBON 1K JA 1/4W
R7110	401 022 1806	CARBON 680 JA 1/4W
R7111	401 015 2605	CARBON 1.8K JA 1/4W
R7112	401 015 2605	CARBON 1.8K JA 1/4W
R7113	401 014 4006	CARBON 1.5K JA 1/4W
R7114	401 016 2505	CARBON 220 JA 1/4W
R7115	401 016 2505	CARBON 220 JA 1/4W
R7116	401 018 5702	CARBON 330K JA 1/4W
R7117	401 110 6201	CARBON 10M JA 1/4W
R7118	401 012 9201	CARBON 1M JA 1/4W
S7101	613 092 0751	SW, PUSH, STOP
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7102	613 092 0751	SW, PUSH, FF
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7103	613 092 0751	SW, PUSH, REC
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7104	613 092 0751	SW, PUSH, REW
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7105	613 092 0751	SW, PUSH, PLAY
or	613 006 3649	PUSH SWITCH
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
S7106	613 092 0751	SW, PUSH, REV
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7107	613 092 0751	SW, PUSH, STILL/AL SCAN
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7108	613 092 0751	SW, PUSH, DUMMY POW
or	613 006 3649	PUSH SWITCH
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH

Location	Part No.	Description
S7109	613 092 0751	SW, PUSH, AL RESET
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7110	613 092 0751	SW, PUSH, PAGE
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7111	613 092 0751	SW, PUSH, AVD/AD ON
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7112	613 092 0751	SW, PUSH, C.RESET
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7113	613 092 0751	SW, PUSH, C.MEMORY
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7114	613 092 0751	SW, PUSH, SHIFT RIGHT
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7115	613 092 0751	SW, PUSH, SHIFT DOWN
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7116	613 092 0751	SW, PUSH, PL RESET
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7117	613 092 0751	SW, PUSH, UP
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7118	613 092 0751	SW, PUSH, DOWN
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
S7119	613 103 3856	SLIDE SWITCH, REPEAT
S7120	613 103 3856	SLIDE SWITCH, TIMER
S7121	613 103 3863	SLIDE SWITCH, ALARM DURATION
S7122	613 092 0751	SW, PUSH, ALL CLEAR
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH
VR711	613 135 2476	VR, ROTARY 1KB
VR712	613 135 2490	VR, ROTARY 500KB
VR713	613 135 2490	VR, ROTARY 500KB
XF711	613 089 4069	RESONATOR, CERAMIC 6MHZ
or	613 108 9570	RESONATOR, CERAMIC 6MHZ
or	613 122 1444	RESONATOR, CERAMIC 6.0MHZ
or	613 124 2135	RESONATOR, CERAMIC 6MHZ

# TM-2 BOARD

Location	Part No.	Description
XF712	613 109 0972	OSC, CRYSTAL 32.768KHZ
or	613 123 6387	OSC, CRYSTAL 32.768KHZ

Location	Part No.	Description
	613 134 8516	COMPL PCB, TM-2
S7201	613 092 0751	SW, PUSH, EJECT
or	613 092 1734	SW, PUSH
or	613 079 4130	SW, PUSH
or	613 006 3649	PUSH SWITCH

# VD-1 BOARD

Location	Part No.	Description	Location	Part No.	Description
	613 134 8530	COMPL PCB, VD-1	C1105	403 109 6308	ELECT 1U M 50V
C1001	403 025 7304	CERAMIC 4.7P K 50V	or	403 049 1708	ELECT 1U M 50V
C1002	403 073 2702	CERAMIC 390P J 50V	C1106	403 109 6308	ELECT 1U M 50V
C1003	403 026 2209	CERAMIC 47P J 50V	or	403 049 1708	ELECT 1U M 50V
C1004	403 158 5604	NP-ELECT 0.47U M 50V	C1107	403 214 1106	CERAMIC 0.047U J 16V
C1005	403 150 1703	CERAMIC 91P J 50V	or	403 120 9609	CERAMIC 0.047U J 16V
C1006	403 071 1509	CERAMIC 180P J 50V	C1108	403 214 1106	CERAMIC 0.047U J 16V
C1007	403 075 4001	CERAMIC 820P J 50V	or	403 120 9609	CERAMIC 0.047U J 16V
C1008	403 155 9902	NP-ELECT 2.2U M 50V	C1109	403 001 1906	CERAMIC 0.01U M 16V
or	403 161 6902	NP-ELECT 2.2U M 50V	C1112	403 109 6308	ELECT 1U M 50V
C1009	403 001 1906	CERAMIC 0.01U M 16V	or	403 049 1708	ELECT 1U M 50V
C1010	403 121 3408	ELECT 2.2U M 50V	C1113	403 214 1106	CERAMIC 0.047U J 16V
or	403 050 1308	ELECT 2.2U M 50V	C1114	403 025 8608	CERAMIC 43P J 50V
C1011	403 130 2904	ELECT 0.47U M 50V	C1115	403 150 1703	CERAMIC 91P J 50V
or	403 048 7701	ELECT 0.47U M 50V	C1116	403 001 1906	CERAMIC 0.01U M 16V
C1012	403 075 3103	CERAMIC 82P J 50V	C1117	403 135 4002	ELECT 47U M 6.3V
C1013	403 068 8801	CERAMIC 100P J 50V	or	403 039 3002	ELECT 47U M 6.3V
C1014	403 063 2200	POLYESTER 0.068U K 50V	C1118	403 068 8801	CERAMIC 100P J 50V
or	403 063 2507	POLYESTER 0.068U K 50V	C1119	403 001 1906	CERAMIC 0.01U M 16V
C1015	403 001 1906	CERAMIC 0.01U M 16V	C1121	403 001 1906	CERAMIC 0.01U M 16V
C1016	403 001 1906	CERAMIC 0.01U M 16V	C1128	403 070 3702	CERAMIC 120P J 50V
C1017	403 001 1906	CERAMIC 0.01U M 16V	C1130	403 019 9703	CERAMIC 27P J 50V
C1018	403 135 4002	ELECT 47U M 6.3V	C1351	403 014 2600	CERAMIC 18P J 50V
or	403 039 3002	ELECT 47U M 6.3V	C1352	403 014 2600	CERAMIC 18P J 50V
C1019	403 121 3408	ELECT 2.2U M 50V	C1401	403 001 1906	CERAMIC 0.01U M 16V
or	403 050 1308	ELECT 2.2U M 50V	C1402	403 121 9509	CERAMIC 0.1U Z 50V
C1020	403 107 9905	ELECT 10U M 16V	C1501	403 121 9509	CERAMIC 0.1U Z 50V
or	403 042 0401	ELECT 10U M 16V	C1502	403 134 8100	ELECT 100U M 6.3V
C1021	403 121 3408	ELECT 2.2U M 50V	or	403 038 2402	ELECT 100U M 6.3V
or	403 050 1308	ELECT 2.2U M 50V	C1504	403 135 7805	ELECT 3.3U M 50V
C1023	403 001 1906	CERAMIC 0.01U M 16V	or	403 050 7805	ELECT 3.3U M 50V
C1024	403 121 2104	ELECT 22U M 10V	C1505	403 024 1501	CERAMIC 39P J 50V
or	403 040 2803	ELECT 22U M 10V	C1506	403 024 1501	CERAMIC 39P J 50V
C1025	403 130 2904	ELECT 0.47U M 50V	C1510	403 134 8100	ELECT 100U M 6.3V
or	403 048 7701	ELECT 0.47U M 50V	or	403 038 2402	ELECT 100U M 6.3V
C1031	403 001 1906	CERAMIC 0.01U M 16V	C1511	403 121 9509	CERAMIC 0.1U Z 50V
C1032	403 135 5009	ELECT 47U M 10V	C1513	403 109 6308	ELECT 1U M 50V
or	403 041 3403	ELECT 47U M 10V	or	403 049 1708	ELECT 1U M 50V
C1033	403 109 6308	ELECT 1U M 50V	C1518	403 121 3507	ELECT 4.7U M 50V
or	403 049 1708	ELECT 1U M 50V	or	403 051 2106	ELECT 4.7U M 50V
C1034	403 026 2209	CERAMIC 47P J 50V	C1519	403 134 4706	NP-ELECT 2.2U M 50V
C1035	403 025 7304	CERAMIC 4.7P K 50V	or	403 193 3306	NP-ELECT 2.2U M 50V
C1036	403 026 2209	CERAMIC 47P J 50V	C1520	403 121 9509	CERAMIC 0.1U Z 50V
C1037	403 121 3002	ELECT 4.7U M 25V	C1521	403 134 9602	ELECT 47U M 16V
or	403 047 1601	ELECT 4.7U M 25V	or	403 044 0300	ELECT 47U M 16V
C1038	403 001 1906	CERAMIC 0.01U M 16V	C1522	403 121 9509	CERAMIC 0.1U Z 50V
C1039	403 001 1906	CERAMIC 0.01U M 16V	C1523	403 121 9509	CERAMIC 0.1U Z 50V
C1040	403 073 6205	CERAMIC 470P J 50V	C1551	403 121 9509	CERAMIC 0.1U Z 50V
C1041	403 135 4002	ELECT 47U M 6.3V	C1552	403 134 8100	ELECT 100U M 6.3V
or	403 039 3002	ELECT 47U M 6.3V	or	403 038 2402	ELECT 100U M 6.3V
C1101	403 214 0703	CERAMIC 0.022U J 16V	C1553	403 109 6308	ELECT 1U M 50V
or	403 120 9005	CERAMIC 0.022U J 16V	or	403 049 1708	ELECT 1U M 50V
C1102	403 001 1906	CERAMIC 0.01U M 16V	C1554	403 068 8801	CERAMIC 100P J 50V
C1103	403 109 6308	ELECT 1U M 50V	C1555	403 071 5408	CERAMIC 220P J 50V
or	403 049 1708	ELECT 1U M 50V	C1556	403 019 9703	CERAMIC 27P J 50V
C1104	403 001 1906	CERAMIC 0.01U M 16V	C1605	403 135 3302	ELECT 1000U M 6.3V
			or	403 038 4505	ELECT 1000U M 6.3V



Location	Part No.	Description
C1609	403 109 6308	ELECT 1U M 50V
or	403 049 1708	ELECT 1U M 50V
C1701	403 039 2609	ELECT 47U M 6.3V
or	403 039 3200	ELECT 47U M 6.3V
C1702	403 003 3700	CERAMIC 0.022U Z 25V
C1703	403 068 8801	CERAMIC 100P J 50V
C1704	403 069 1207	CERAMIC 1000P K 50V
C1705	403 047 0604	ELECT 4.7U M 25V
or	403 047 1809	ELECT 4.7U M 25V
C1706	403 001 1906	CERAMIC 0.01U M 16V
C1707	403 019 9703	CERAMIC 27P J 50V
C1708	403 001 1906	CERAMIC 0.01U M 16V
C1709	403 009 1809	CERAMIC 10P J 50V
C1710	403 049 0800	ELECT 1U M 50V
or	403 049 2002	ELECT 1U M 50V
C1711	403 001 3801	CERAMIC 1500P K 16V
C1712	403 041 9405	ELECT 10U M 16V
or	403 042 0807	ELECT 10U M 16V
C1713	403 019 9703	CERAMIC 27P J 50V
C1720	403 001 1906	CERAMIC 0.01U M 16V
DL131	613 116 7001	DELAY, 2H
or	613 117 4870	DELAY, 2H
D1002	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1031	407 070 8408	ZENER DIODE GZS9.1Y-TB
or	407 053 8906	ZENER DIODE MTZ9.1C-T-77
D1101	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1102	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1401	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1402	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1403	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1404	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1405	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1406	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1501	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1502	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
IC101	409 178 3309	IC LA7340
IC102	409 171 9209	IC LC8992
IC111	409 208 7208	IC LA7332
IC141	409 207 2600	IC MLC4081B
IC151	409 238 3300	IC M50556-001SP
IC152	409 111 9306	IC LA7213
IC171	409 143 7905	IC CXA1203M

Location	Part No.	Description
L1001	613 014 0951	COIL, INDUCTOR 68UHK
or	613 014 4478	HF CHOKE
L1031	613 014 0968	COIL, INDUCTOR 82UHK
or	613 014 4485	HF CHOKE
L1032	613 014 0739	COIL, INDUCTOR 1.0UHM
or	613 014 4256	HF CHOKE
L1101	613 014 0883	COIL, INDUCTOR 18UHK
or	613 014 4409	HF CHOKE
L1102	613 014 0791	COIL, INDUCTOR 3.3UHK
or	613 014 4317	HF CHOKE
L1103	613 014 0876	COIL, INDUCTOR 15UHK
or	613 014 4393	HF CHOKE
L1104	613 014 4652	HF CHOKE 27UH J
or	613 014 1132	COIL, INDUCTOR 27UHH
L1501	613 014 1101	COIL, INDUCTOR 15UHH
or	613 014 4621	HF CHOKE
L1502	613 014 0975	COIL, INDUCTOR 100UHK
or	613 014 4492	HF CHOKE
L1504	613 014 0975	COIL, INDUCTOR 100UHK
or	613 014 4492	HF CHOKE
L1701	613 014 4690	HF CHOKE 56UH J
or	613 014 1170	COIL, INDUCTOR 56UHH
L1702	613 014 1187	COIL, INDUCTOR 68UHH
or	613 014 4706	HF CHOKE 68UH J
L1703	613 014 1170	COIL, INDUCTOR 56UHH
or	613 014 4690	HF CHOKE 56UH J
Q1001	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1002	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1003	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1004	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q1031	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1032	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1101	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1102	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA



Location	Part No.	Description
Q1103	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1104	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1105	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1151	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1401	405 007 6701	TR 2SB598-F-NP-AA
or	405 007 5308	TR 2SB560-F-MP-AE
Q1402	405 023 5009	TR 2SD400-E-MP-AE
or	405 023 5306	TR 2SD400-F-MP
Q1403	405 018 2501	TR 2SC3399-AC
or	405 000 6104	TR DTC144ES-DCTP
Q1501	405 003 1205	TR 2SA1246-T-AA
or	405 038 4509	TR 2SA1246-S-AA
or	405 006 6702	TR 2SA984-F-AA
Q1502	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1601	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1701	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1702	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1703	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1704	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1705	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
R1001	401 022 3008	CARBON 6.8K JA 1/4W
R1002	401 017 1705	CARBON 2.7K JA 1/4W
R1003	401 022 1806	CARBON 680 JA 1/4W

Location	Part No.	Description
R1004	401 012 9201	CARBON 1M JA 1/4W
R1005	401 012 5609	CARBON 1K JA 1/4W
R1006	401 017 1705	CARBON 2.7K JA 1/4W
R1007	401 012 5609	CARBON 1K JA 1/4W
R1008	401 022 1806	CARBON 680 JA 1/4W
R1009	401 012 5609	CARBON 1K JA 1/4W
R1010	401 017 8506	CARBON 300 JA 1/4W
R1011	401 015 2605	CARBON 1.8K JA 1/4W
R1012	401 015 4609	CARBON 180K JA 1/4W
R1013	401 012 9201	CARBON 1M JA 1/4W
R1014	401 016 3700	CARBON 2.2K JA 1/4W
R1015	401 023 2703	CARBON 8.2K JA 1/4W
R1016	401 013 5202	CARBON 1.2K JA 1/4W
R1017	401 018 4804	CARBON 33K JA 1/4W
R1018	401 012 5609	CARBON 1K JA 1/4W
R1019	401 019 0904	CARBON 390 JA 1/4W
R1020	401 020 3802	CARBON 470K JA 1/4W
R1021	401 014 6000	CARBON 150K JA 1/4W
R1022	401 022 1806	CARBON 680 JA 1/4W
R1023	401 016 4707	CARBON 22K JA 1/4W
R1024	401 020 2805	CARBON 47K JA 1/4W
R1025	401 016 3700	CARBON 2.2K JA 1/4W
R1031	401 012 5609	CARBON 1K JA 1/4W
R1032	401 020 0702	CARBON 470 JA 1/4W
R1033	401 018 9700	CARBON 39 JA 1/4W
R1034	401 018 9700	CARBON 39 JA 1/4W
R1035	401 018 9700	CARBON 39 JA 1/4W
R1101	401 020 2805	CARBON 47K JA 1/4W
R1102	401 016 4707	CARBON 22K JA 1/4W
R1103	401 012 5609	CARBON 1K JA 1/4W
R1104	401 013 5202	CARBON 1.2K JA 1/4W
R1105	401 018 2701	CARBON 330 JA 1/4W
R1106	401 021 1807	CARBON 560 JA 1/4W
R1107	401 012 5609	CARBON 1K JA 1/4W
R1108	401 012 5609	CARBON 1K JA 1/4W
R1109	401 012 6903	CARBON 10K JA 1/4W
R1110	401 023 2703	CARBON 8.2K JA 1/4W
R1111	401 012 5609	CARBON 1K JA 1/4W
R1112	401 015 2605	CARBON 1.8K JA 1/4W
R1113	401 012 8006	CARBON 100K JA 1/4W
R1114	401 014 4006	CARBON 1.5K JA 1/4W
R1115	401 012 5609	CARBON 1K JA 1/4W
R1116	401 019 1802	CARBON 3.9K JA 1/4W
R1117	401 014 4006	CARBON 1.5K JA 1/4W
R1118	401 022 7105	CARBON 750 JA 1/4W
R1119	401 012 5609	CARBON 1K JA 1/4W
R1120	401 012 4404	CARBON 100 JA 1/4W
R1121	401 012 5609	CARBON 1K JA 1/4W
R1122	401 020 0702	CARBON 470 JA 1/4W
R1123	401 014 4006	CARBON 1.5K JA 1/4W
R1124	401 016 5704	CARBON 220K JA 1/4W
R1152	401 012 5609	CARBON 1K JA 1/4W
R1351	401 016 3700	CARBON 2.2K JA 1/4W
R1352	401 016 3700	CARBON 2.2K JA 1/4W
R1401	401 012 5609	CARBON 1K JA 1/4W
R1402	401 012 8006	CARBON 100K JA 1/4W
R1403	401 012 5609	CARBON 1K JA 1/4W

Location	Part No.	Description
R1404	401 012 8006	CARBON 100K JA 1/4W
R1405	401 012 5609	CARBON 1K JA 1/4W
R1406	401 012 8006	CARBON 100K JA 1/4W
R1407	401 020 2805	CARBON 47K JA 1/4W
R1408	401 018 3708	CARBON 3.3K JA 1/4W
R1409	401 020 2805	CARBON 47K JA 1/4W
R1410	401 023 1607	CARBON 820 JA 1/4W
R1411	401 012 6903	CARBON 10K JA 1/4W
R1412	401 020 3802	CARBON 470K JA 1/4W
R1413	401 016 3700	CARBON 2.2K JA 1/4W
R1501	401 021 8103	CARBON 620 JA 1/4W
R1502	401 018 2701	CARBON 330 JA 1/4W
R1503	401 019 1802	CARBON 3.9K JA 1/4W
R1513	401 016 5704	CARBON 220K JA 1/4W
R1514	401 012 9201	CARBON 1M JA 1/4W
R1516	401 016 3700	CARBON 2.2K JA 1/4W
R1518	401 016 5704	CARBON 220K JA 1/4W
R1519	401 018 3708	CARBON 3.3K JA 1/4W
R1551	401 017 2702	CARBON 27K JA 1/4W
R1552	401 012 6903	CARBON 10K JA 1/4W
R1553	401 022 3008	CARBON 6.8K JA 1/4W
R1555	401 012 6903	CARBON 10K JA 1/4W
R1556	401 012 6903	CARBON 10K JA 1/4W
R1557	401 012 6903	CARBON 10K JA 1/4W
R1607	401 021 1807	CARBON 560 JA 1/4W
R1608	401 022 6702	CARBON 75 JA 1/4W
R1701	401 012 5609	CARBON 1K JA 1/4W
R1702	401 020 4601	CARBON 4.7M JA 1/4W
R1703	401 020 1907	CARBON 4.7K JA 1/4W
R1704	401 012 5609	CARBON 1K JA 1/4W
R1705	401 019 2908	CARBON 39K JA 1/4W
R1706	401 016 4707	CARBON 22K JA 1/4W
R1707	401 012 5609	CARBON 1K JA 1/4W
R1708	401 012 5609	CARBON 1K JA 1/4W
R1709	401 012 6903	CARBON 10K JA 1/4W
R1710	401 012 6903	CARBON 10K JA 1/4W
R1711	401 012 5609	CARBON 1K JA 1/4W
R1712	401 012 5609	CARBON 1K JA 1/4W
R1713	401 013 5202	CARBON 1.2K JA 1/4W
R1714	401 016 3700	CARBON 2.2K JA 1/4W
R1716	401 016 0006	CARBON 20K JA 1/4W
R1717	401 012 6903	CARBON 10K JA 1/4W
R1718	401 012 6903	CARBON 10K JA 1/4W
R1719	401 012 8006	CARBON 100K JA 1/4W
R1720	401 012 8006	CARBON 100K JA 1/4W
R1721	401 022 1806	CARBON 680 JA 1/4W
R1722	401 018 3708	CARBON 3.3K JA 1/4W
R1723	401 014 4006	CARBON 1.5K JA 1/4W
R1724	401 012 5609	CARBON 1K JA 1/4W
R1725	401 016 3700	CARBON 2.2K JA 1/4W
R1726	401 013 5202	CARBON 1.2K JA 1/4W
R1727	401 012 4404	CARBON 100 JA 1/4W
R1730	401 015 2645	CARBON 1.8K JA 1/4W
TH101	407 142 4208	THERMISTOR TD5-C310DB

Location	Part No.	Description
VR101	613 079 2525	VR, SEMI 1KB
or	613 120 8537	VR, SEMI 1KB
or	613 097 7892	VR, SEMI 1KB
or	613 001 8977	SEMI VR 1KB
VR102	613 079 2532	VR, SEMI 10KB
or	613 120 8544	VR, SEMI 10KB
or	613 097 7908	VR, SEMI 10KB
or	613 001 9035	SEMI VR 10KB
VR103	613 120 8506	VR, SEMI 4.7KB
or	613 120 8650	VR, SEMI 4.7KB
or	613 097 7991	VR, SEMI 4.7KB
or	613 001 9011	SEMI VR
VR104	613 079 2532	VR, SEMI 10KB
or	613 120 8544	VR, SEMI 10KB
or	613 097 7908	VR, SEMI 10KB
or	613 001 9035	SEMI VR 10KB
VR105	613 079 2525	VR, SEMI 1KB
or	613 120 8537	VR, SEMI 1KB
or	613 097 7892	VR, SEMI 1KB
or	613 001 8977	SEMI VR 1KB
VR171	613 120 8506	VR, SEMI 4.7KB
or	613 120 8650	VR, SEMI 4.7KB
or	613 097 7991	VR, SEMI 4.7KB
or	613 001 9011	SEMI VR
VR172	613 120 8438	VR, SEMI 22KB
or	613 120 8582	VR, SEMI 22KB
or	613 097 7946	VR, SEMI 22KB
or	613 001 9059	SEMI VR 22KB
XF101	613 004 5539	LC PACK 4MHZ LPF
XF111	613 004 5485	LC PACK
X1101	613 080 9407	OSC, CRYSTAL 4.43MHZ
or	613 093 8008	OSC, CRYSTAL 4.433619MHZ

# VP-1 BOARD

Location	Part No.	Description
	613 134 8554	COMPL PCB, VP-1
C1801	403 163 7907	ELECT 47U M 6.3V
or	403 193 4006	ELECT 47U M 6.3V
C1802	403 001 1906	CERAMIC 0.01U M 16V
C1803	403 001 1906	CERAMIC 0.01U M 16V
C1804	403 073 2702	CERAMIC 390P J 50V
C1805	403 070 3702	CERAMIC 120P J 50V
C1806	403 121 0100	CERAMIC 0.082U J 16V
or	403 214 1403	CERAMIC 0.082U J 16V
C1807	403 001 1906	CERAMIC 0.01U M 16V
C1808	403 026 2209	CERAMIC 47P J 50V
C1809	403 033 3335	CERAMIC 82P J 50V
or	403 214 9518	CERAMIC 82P J 50V
C1811	403 026 2209	CERAMIC 47P J 50V
C1812	403 001 1906	CERAMIC 0.01U M 16V
C1813	403 026 2209	CERAMIC 47P J 50V
C1814	403 022 7703	CERAMIC 33P J 50V
C1815	403 022 7703	CERAMIC 33P J 50V
C1816	403 001 1906	CERAMIC 0.01U M 16V
C1817	403 163 7907	ELECT 47U M 6.3V
or	403 193 4006	ELECT 47U M 6.3V
C1818	403 001 1906	CERAMIC 0.01U M 16V
C1819	403 026 2209	CERAMIC 47P J 50V
C1821	403 014 2600	CERAMIC 18P J 50V
C1822	403 072 7500	CERAMIC 330P J 50V
C1823	403 070 3702	CERAMIC 120P J 50V
C1824	403 070 3702	CERAMIC 120P J 50V
C1825	403 001 1906	CERAMIC 0.01U M 16V
C1826	403 163 7907	ELECT 47U M 6.3V
or	403 193 4006	ELECT 47U M 6.3V
C1827	403 214 0703	CERAMIC 0.022U J 16V
or	403 120 9005	CERAMIC 0.022U J 16V
C1828	403 154 3307	OS-SOLID 4.7U M 10V
C1831	403 193 8509	ELECT 0.33U M 50V
or	403 193 6505	ELECT 0.33U M 50V
C1832	403 001 1906	CERAMIC 0.01U M 16V
C1833	403 001 1906	CERAMIC 0.01U M 16V
C1836	403 001 1906	CERAMIC 0.01U M 16V
C1837	403 001 1906	CERAMIC 0.01U M 16V
C1839	403 143 2809	CERAMIC 0.047U Z 50V
C1841	403 143 2809	CERAMIC 0.047U Z 50V
C1842	403 143 2809	CERAMIC 0.047U Z 50V
C1843	403 143 2809	CERAMIC 0.047U Z 50V
C1844	403 004 0500	CERAMIC 0.047U K 25V
C1845	403 163 7907	ELECT 47U M 6.3V
or	403 193 4006	ELECT 47U M 6.3V
D1801	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
D1802	407 007 9904	DIODE GMA01-BT
or	407 012 4406	DIODE 1SS133-T-77
IC181	409 257 8201	IC LA7371A
L1801	613 014 0975	COIL, INDUCTOR 100UHK
or	613 014 4492	HF CHOKE

Location	Part No.	Description
L1802	613 014 0902	COIL, INDUCTOR 39UHH
or	613 014 4447	HF CHOKE, 39UH J
L1803	613 014 1019	COIL, INDUCTOR 220UHH
or	613 014 4539	HF CHOKE, 220UH J
L1804	613 014 1109	COIL, INDUCTOR 15UHH
or	613 014 4621	HF CHOKE 15UH J
L1805	613 015 6273	COIL, INDUCTOR 390UHH
or	613 014 8322	HF CHOKE
L1806	613 014 1088	COIL, INDUCTOR 10UHH
or	613 014 4607	HF CHOKE 10UH J
L1807	613 014 1101	COIL, INDUCTOR 15UHH
or	613 014 4621	HF CHOKE, 15UH J
L1808	613 014 1170	COIL, INDUCTOR 56UHH
or	613 014 4690	HF CHOKE 56UH J
L1809	613 014 0975	COIL, INDUCTOR 100UHK
or	613 014 4492	HF CHOKE
L1811	613 014 1064	COIL, INDUCTOR 6.8UHH
or	613 014 4584	HF CHOKE
L1812	613 014 1125	COIL, INDUCTOR 22UHH
or	613 014 4645	HF CHOKE, 22UH J
L1813	613 014 1217	COIL, INDUCTOR 120UHH
or	613 014 4737	HF CHOKE, 120UH J
L1814	613 015 6808	COIL, INDUCTOR 390UHK
or	613 014 8834	HF CHOKE, 390UH K
L1815	613 014 0975	COIL, INDUCTOR 100UHK
or	613 014 4492	HF CHOKE
L1816	613 014 1057	COIL, INDUCTOR 5.6UHH
or	613 014 4577	HF CHOKE, 5.6UH J
Q1801	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1802	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1803	405 016 1100	TR 2SC2839-F-SPA-AC
or	405 016 6600	TR 2SC3000-F-AA
Q1804	405 016 1100	TR 2SC2839-F-SPA-AC
or	405 016 6600	TR 2SC3000-F-AA
Q1805	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
Q1806	405 019 2807	TR 2SC536-F-SPA-AC
or	405 019 3903	TR 2SC536-G-SPA-AC
or	405 019 2708	TR 2SC536-F-NP-AA
or	405 019 3804	TR 2SC536-G-NP-AA
Q1807	405 004 4601	TR 2SA608-F-SPA-AC
or	405 004 5103	TR 2SA608-G-SPA-AC
or	405 004 4502	TR 2SA608-F-NP-AA
or	405 004 5004	TR 2SA608-G-NP-AA
R1801	401 012 5659	CARBON 1K JA 1/4W
R1802	401 016 2505	CARBON 220 JA 1/4W
R1803	401 012 5609	CARBON 1K JA 1/4W

# PW-1 BOARD

Location	Part No.	Description
R1804	401 014 6000	CARBON 150K JA 1/4W
R1805	401 014 6000	CARBON 150K JA 1/4W
R1806	401 015 2605	CARBON 1.8K JA 1/4W
R1807	401 017 0708	CARBON 270 JA 1/4W
R1808	401 012 5659	CARBON 1K JA 1/4W
R1809	401 016 3740	CARBON 2.2K JA 1/4W
R1810	401 012 5609	CARBON 1K JA 1/4W
R1811	401 023 1607	CARBON 820 JA 1/4W
R1812	401 023 1607	CARBON 820 JA 1/4W
R1813	401 016 3700	CARBON 2.2K JA 1/4W
R1814	401 019 0904	CARBON 390 JA 1/4W
R1815	401 019 0904	CARBON 390 JA 1/4W
R1817	401 022 1806	CARBON 680 JA 1/4W
R1818	401 015 2605	CARBON 1.8K JA 1/4W
R1819	401 016 3700	CARBON 2.2K JA 1/4W
R1821	401 020 0702	CARBON 470 JA 1/4W
R1822	401 015 2605	CARBON 1.8K JA 1/4W
R1823	401 022 1806	CARBON 680 JA 1/4W
R1824	401 013 5202	CARBON 1.2K JA 1/4W
R1825	401 013 6308	CARBON 12K JA 1/4W
R1826	401 012 5609	CARBON 1K JA 1/4W
R1827	401 016 4707	CARBON 22K JA 1/4W
R1828	401 016 3700	CARBON 2.2K JA 1/4W
R1831	401 016 3700	CARBON 2.2K JA 1/4W
R1832	401 020 2805	CARBON 47K JA 1/4W
R1833	401 012 5609	CARBON 1K JA 1/4W
R1835	401 021 2903	CARBON 5.6K JA 1/4W
R1838	401 018 4804	CARBON 33K JA 1/4W
R1839	401 016 3700	CARBON 2.2K JA 1/4W
R1840	401 015 8805	CARBON 200 JA 1/4W
VR181	613 117 1664	VR, SEMI 1KB
or	613 002 0345	SEMI VR 1KB
or	613 129 4295	VR, SEMI 1KB
or	613 120 8681	VR, SEMI 1KB
VR182	613 117 1671	VR, SEMI 10KB
or	613 002 0406	SEMI VR 10KB
or	613 129 4301	VR SEMI 10KB
or	613 120 8698	VR SEMI 10KB

Location	Part No.	Description
	613 134 8578	COMPL PCB, PW-1
C5001	△ 404 044 8709	MY-POLYEST 4700P M 250V
C5101	△ 403 045 9807	ELECT 2200U M 25V
or	△ 403 046 0605	ELECT 2200U M 25V
C5102	△ 403 074 0806	CERAMIC 4700P Z 50V
or	△ 403 201 5803	CERAMIC 4700P Z 50V
C5103	△ 403 045 1504	ELECT 1000U M 25V
or	△ 403 045 2907	ELECT 1000U M 25V
C5104	△ 403 043 7409	ELECT 3300U M 16V
or	△ 403 043 8109	ELECT 3300U M 16V
C5105	△ 403 157 0006	ELECT 47U M 63V
or	△ 403 205 9401	ELECT 47U M 63V
C5106	△ 403 155 5805	ELECT 47U M 100V
or	△ 403 195 5100	ELECT 47U M 100V
C5109	403 154 8302	ELECT 47U M 50V
or	403 121 6607	ELECT 47U M 50V
C5111	403 107 9905	ELECT 10U M 16V
or	403 042 0401	ELECT 10U M 16V
C5112	403 107 9905	ELECT 10U M 16V
or	403 042 0401	ELECT 10U M 16V
C5113	403 107 9905	ELECT 10U M 16V
or	403 042 0401	ELECT 10U M 16V
C5115	△ 403 043 7409	ELECT 3300U M 16V
or	△ 403 043 8109	ELECT 3300U M 16V
D5101	△ 407 145 5004	DIODE ERC01-02FL9
D5102	△ 407 145 5004	DIODE ERC01-02FL9
D5103	△ 407 006 0902	DIODE ERB12-02-V1
or	△ 407 004 9600	DIODE DSF10TC-AT1
D5104	△ 407 006 0902	DIODE ERB12-02-V1
or	△ 407 004 9600	DIODE DSF10TC-AT1
D5105	△ 407 005 8701	DIODE ERA15-02-V5
or	△ 407 004 9709	DIODE DSK10C-BT
or	△ 407 088 6502	DIODE MPG06D-PKG3
D5106	△ 407 005 8701	DIODE ERA15-02-V5
or	△ 407 004 9709	DIODE DSK10C-BT
or	△ 407 088 6502	DIODE MPG06D-PKG3
D5107	△ 407 005 8701	DIODE ERA15-02-V5
or	△ 407 004 9709	DIODE DSK10C-BT
or	△ 407 088 6502	DIODE MPG06D-PKG3
D5108	△ 407 005 8701	DIODE ERA15-02-V5
or	△ 407 004 9709	DIODE DSK10C-BT
or	△ 407 088 6502	DIODE MPG06D-PKG3
D5109	△ 407 005 8701	DIODE ERA15-02-V5
or	△ 407 004 9709	DIODE DSK10C-BT
or	△ 407 088 6502	DIODE MPG06D-PKG3
D5111	△ 407 005 8701	DIODE ERA15-02-V5
or	△ 407 004 9709	DIODE DSK10C-BT
or	△ 407 088 6502	DIODE MPG06D-PKG3
F5001	△ 423 004 6708	FUSE 250V 0.315A
F5101	△ 423 004 3004	FUSE 250V 0.8A
F5102	△ 423 005 4901	FUSE 250V 1.6A
F5103	△ 423 006 1305	FUSE 250V 2A
F5104	△ 423 004 6708	FUSE 250V 0.315A

Location	Part No.	Description
L5001 or	△ 613 119 9828 △ 613 080 0664	COIL, LINE FILTER HF CHOKE 1MH 1A 250V
R5103	401 007 8608	CARBON 1.5K JA 1/2W
R5104	401 007 8608	CARBON 1.5K JA 1/2W

#### PW-2 BOARD

Location	Part No.	Description
	613 134 8592	COMPL PCB, PW-2
IC521	409 214 4208	IC STK5446

#### SV-5 BOARD

Location	Part No.	Description
	613 122 1314	COMPL, SV-5
	409 242 8100	IC TA8423F
	407 142 2303	SENSOR THS-119
	401 166 2707	CARBON 0.82 GB 1/4W
	401 016 7401	CARBON 240 JA 1/4W
	403 191 8709	ELECT 1U M 50V
	403 191 8600	ELECT 4.7U M 25V
	613 122 1093	COIL, CHOKE

#### MC-1 BOARD

Location	Part No.	Description
	613 122 9884	COMPL PCB, MC-1
R1	401 026 0607	CARBON 270 JA 1/6W
or	401 017 0708	CARBON 270 JA 1/4W
R2	401 024 6700	CARBON 100 JA 1/6W
or	401 012 4404	CARBON 100 JA 1/4W
	407 094 1300	PHOTO COUPLE SPI-315-04-C
	407 043 0101	PHOTO DIODE ON2170-R



# CIRCUIT DIAGRAMS & PRINTED CIRCUIT BOARDS

## TLS-900P

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SY-A CIRCUIT DIAGRAM	<b>B</b>
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SV-A CIRCUIT DIAGRAM	<b>D</b>
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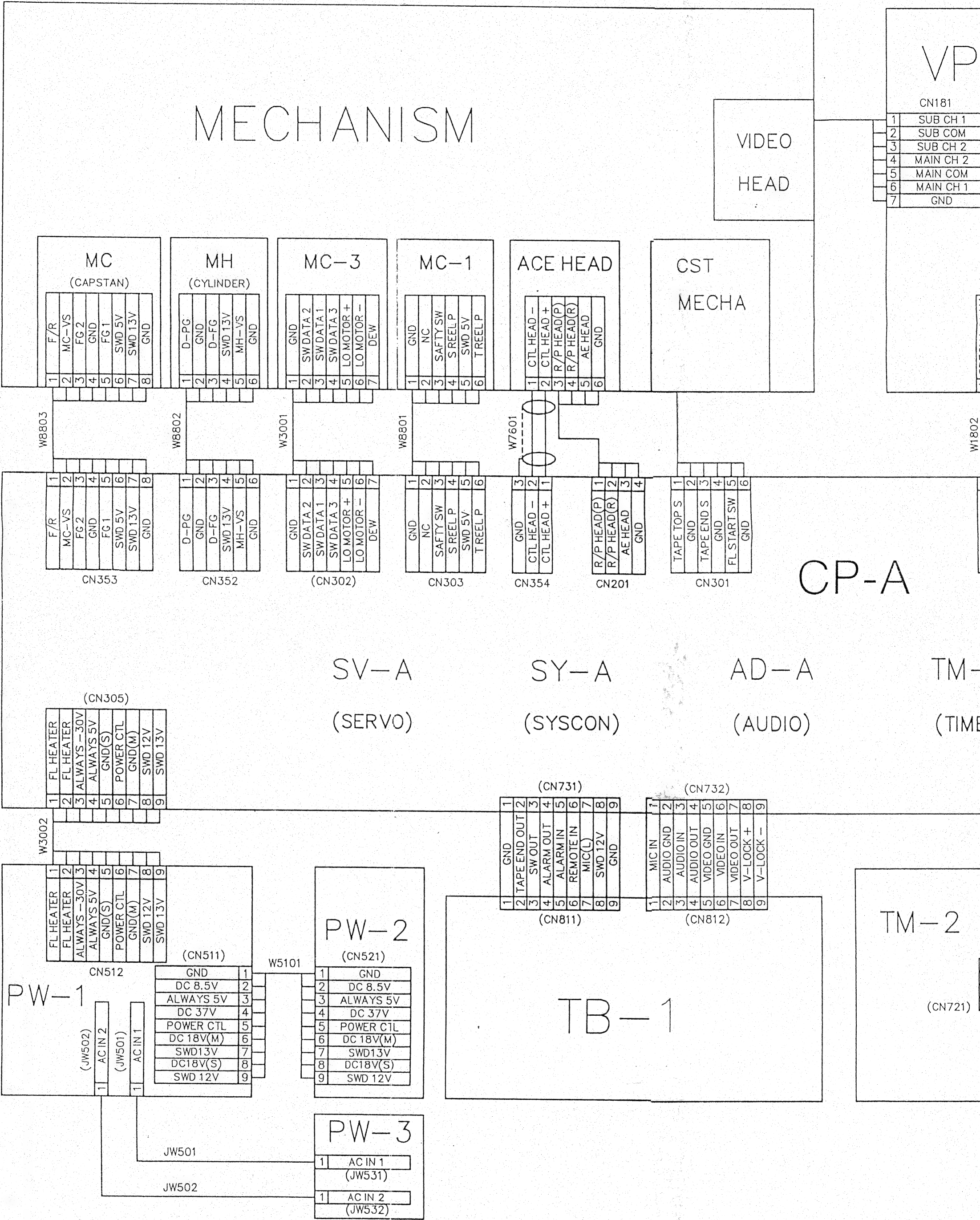
**NOTES :**

1. All resistance values in "OHMS" unless otherwise noted.  
(K=1,000 M=1,000,000)
2. All capacitance values in " $\mu$ fd" unless otherwise noted.  
p=pico farad
3. All inductance values in "mH" unless otherwise noted.  
 $\mu$  =micro henry

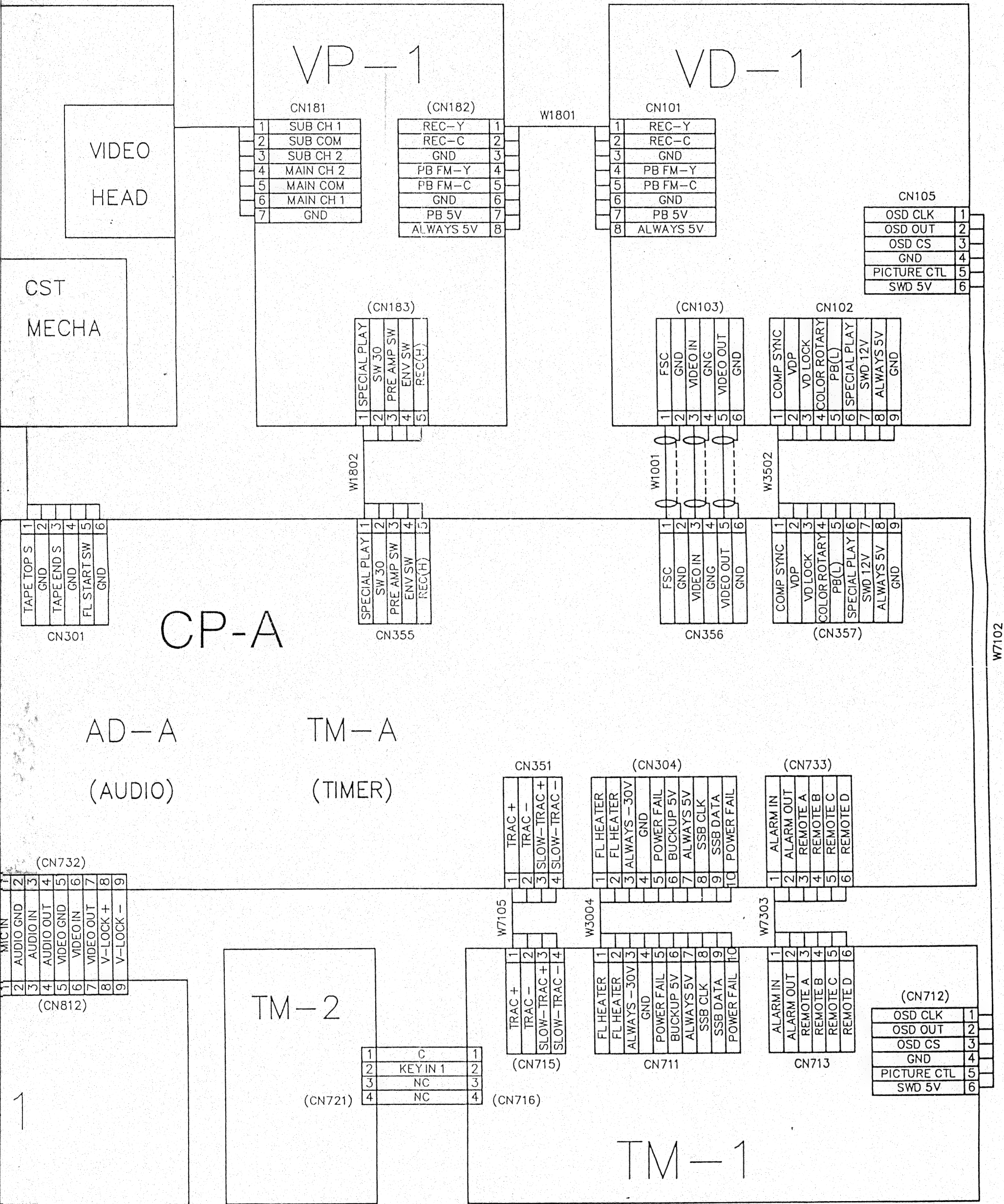
**PRODUCT SAFETY NOTICE**

THE COMPONENTS DESIGNATED BY A SYMBOL ( $\Delta$ ) IN THIS SCHEMATIC DIAGRAM DESIGNATES COMPONENTS WHOSE VALUE ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A SYMBOL NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.



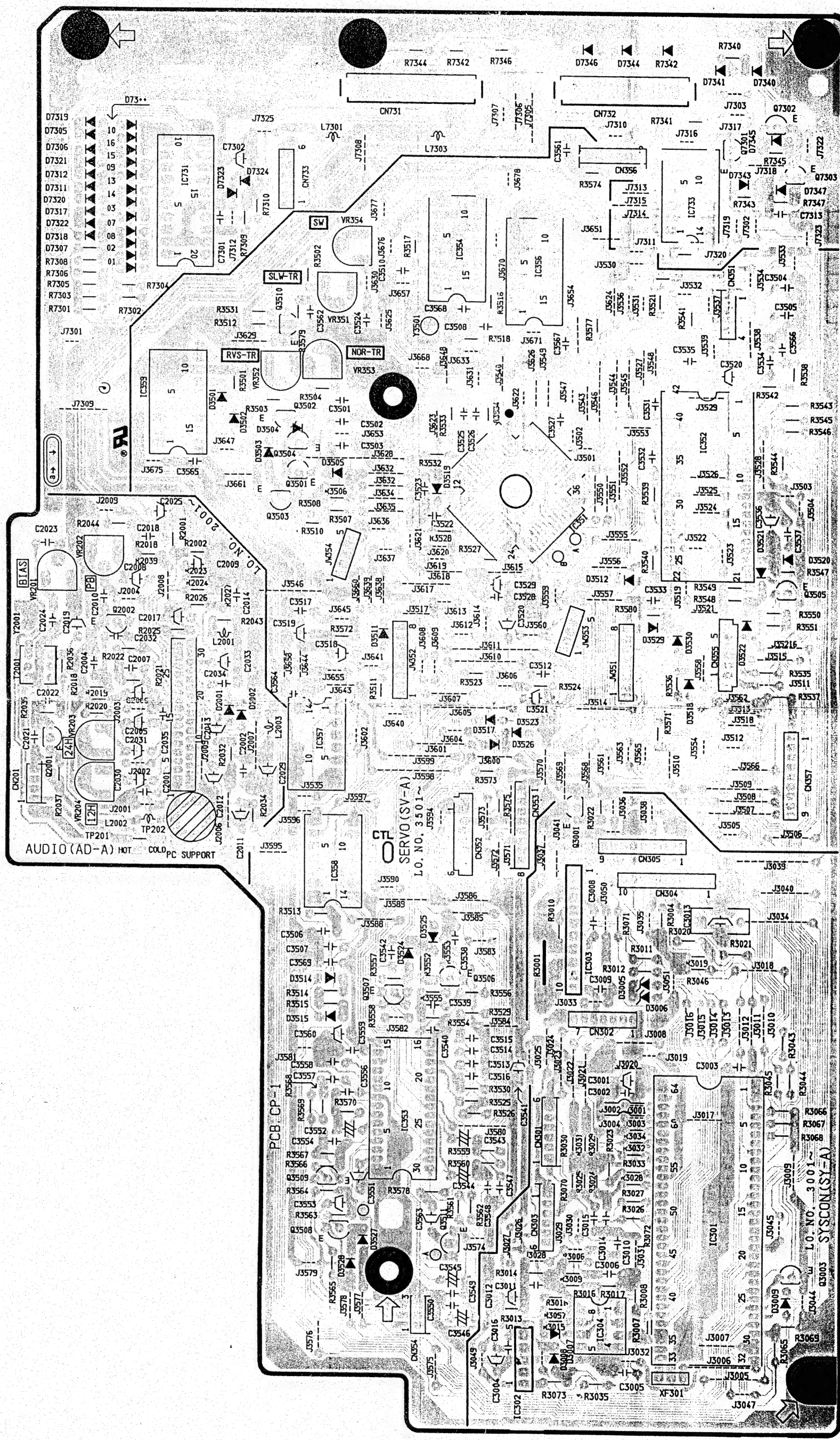


OVERALL WIRING DIAGRAM

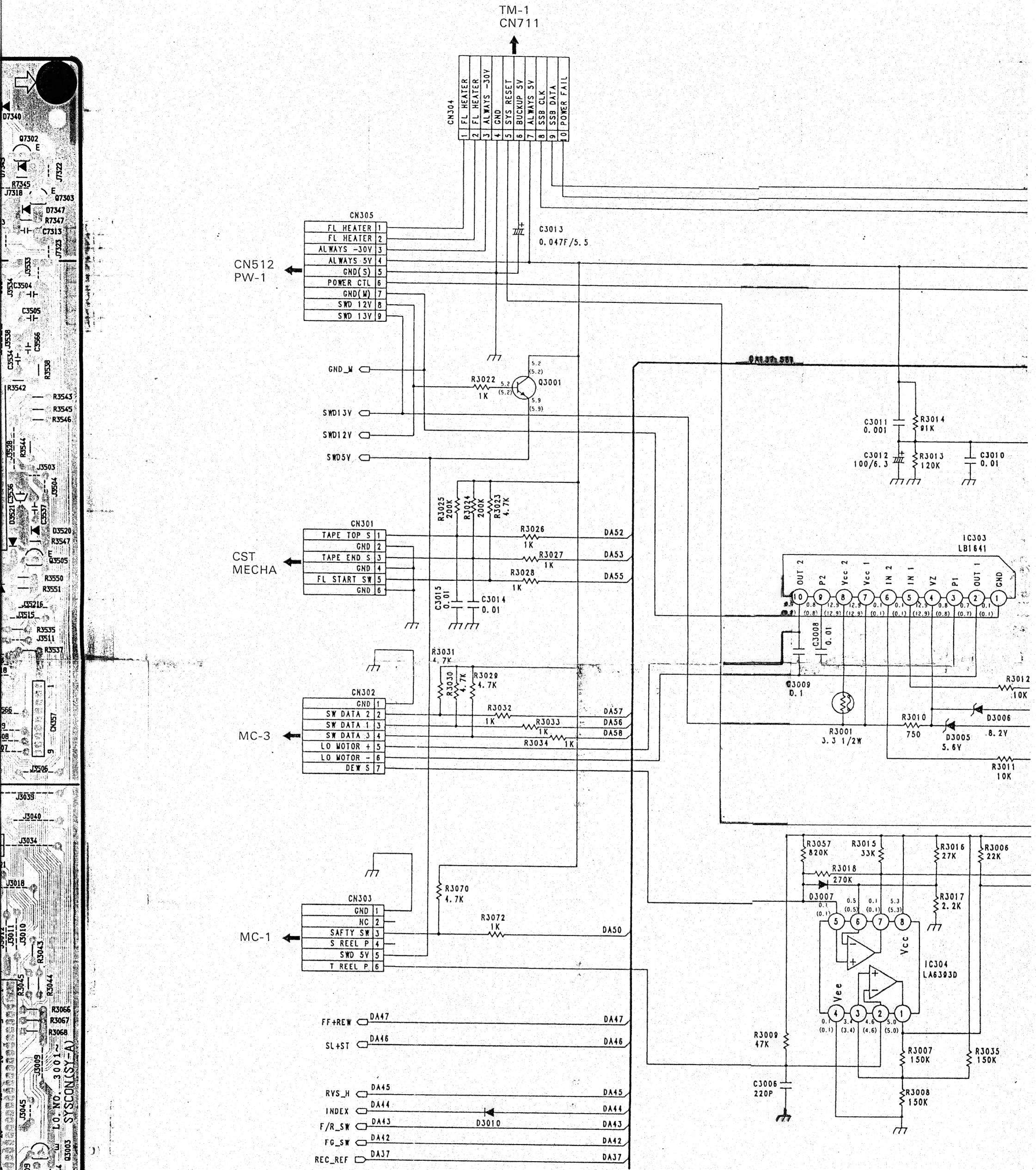


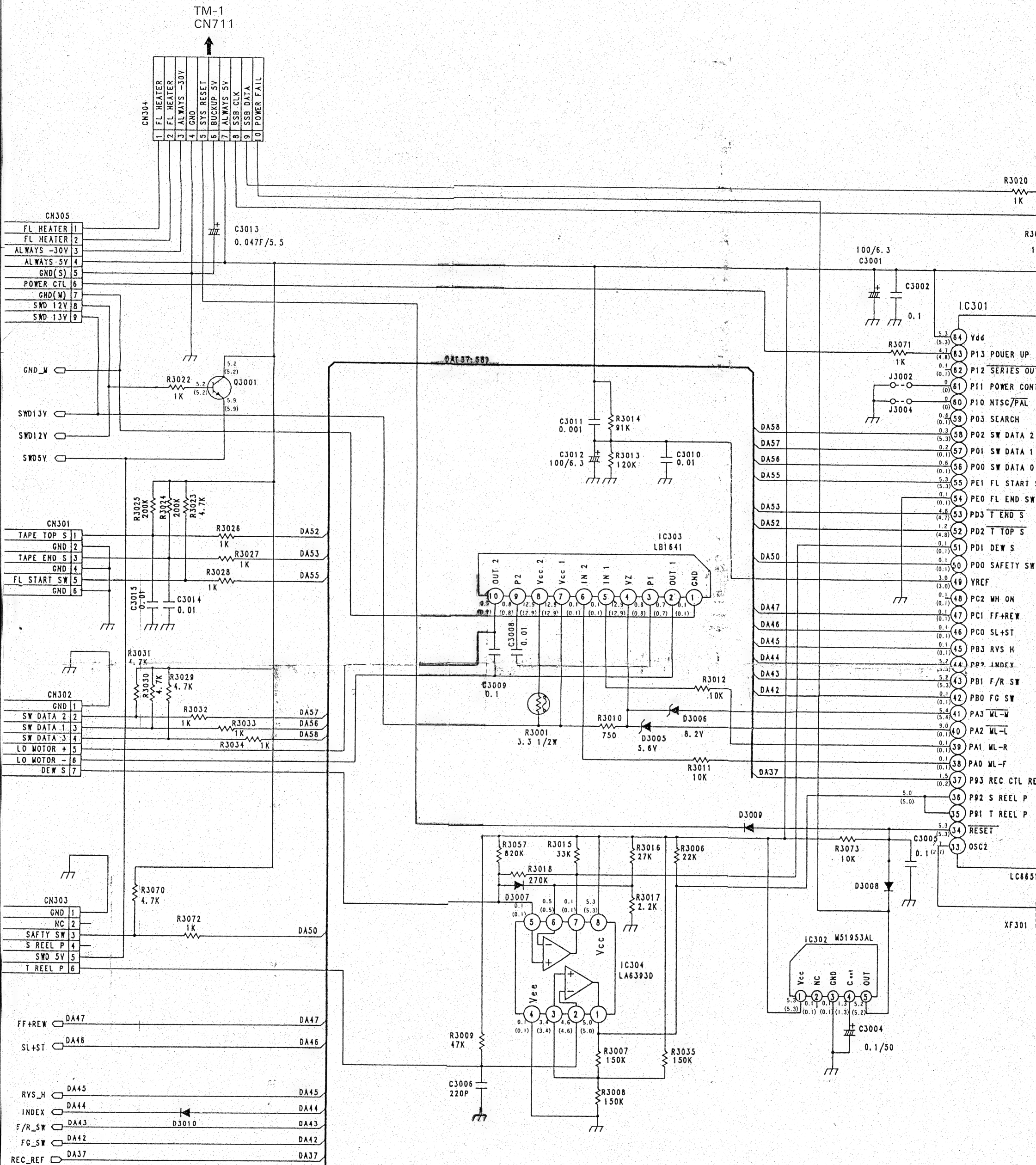


S  
R  
Q  
P  
O  
N  
M  
L  
K  
J  
I  
H  
G  
F  
E  
D

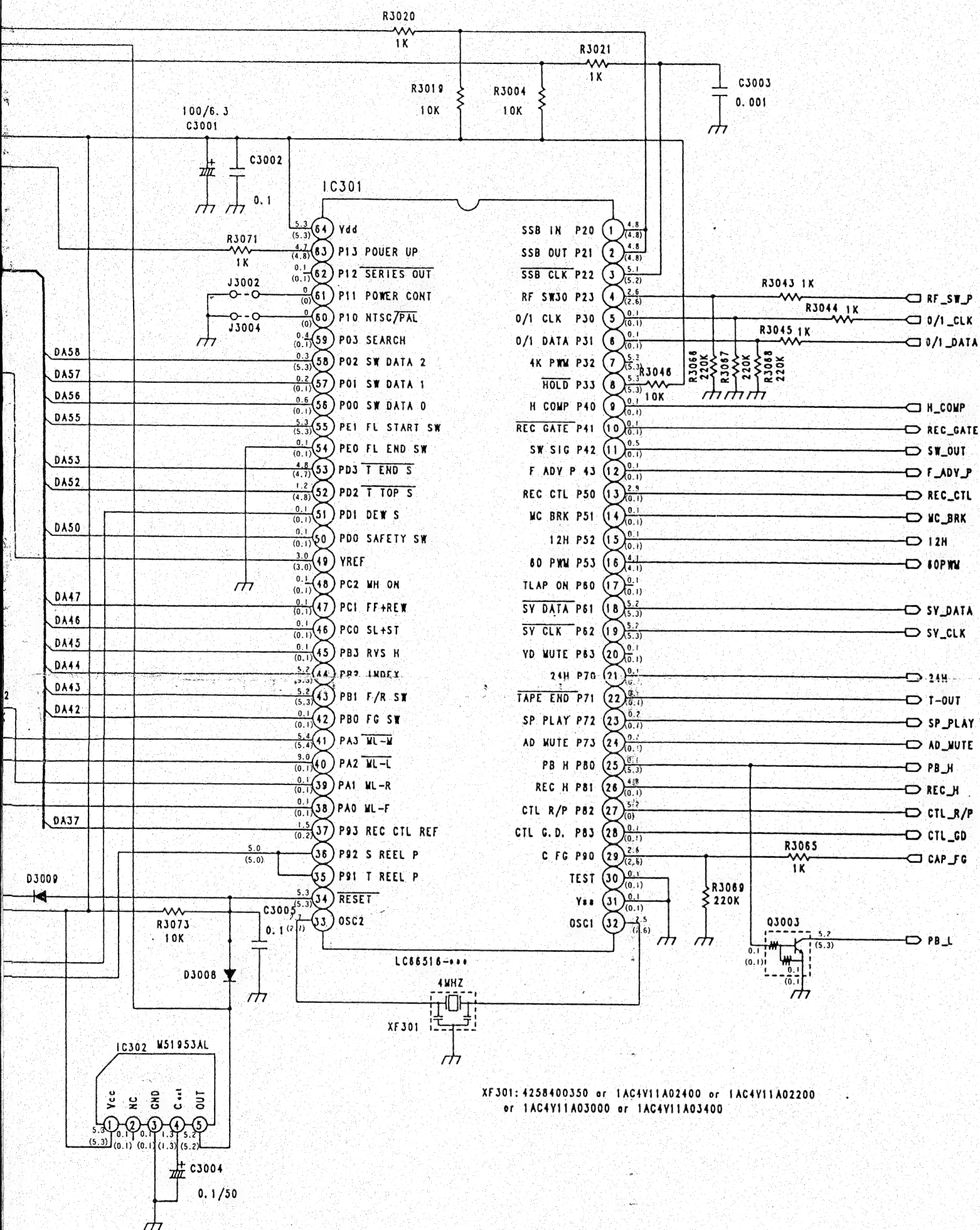












XF301: 4258400350 or 1AC4V11A02400 or 1AC4V11A02200  
or 1AC4V11A03000 or 1AC4V11A03400

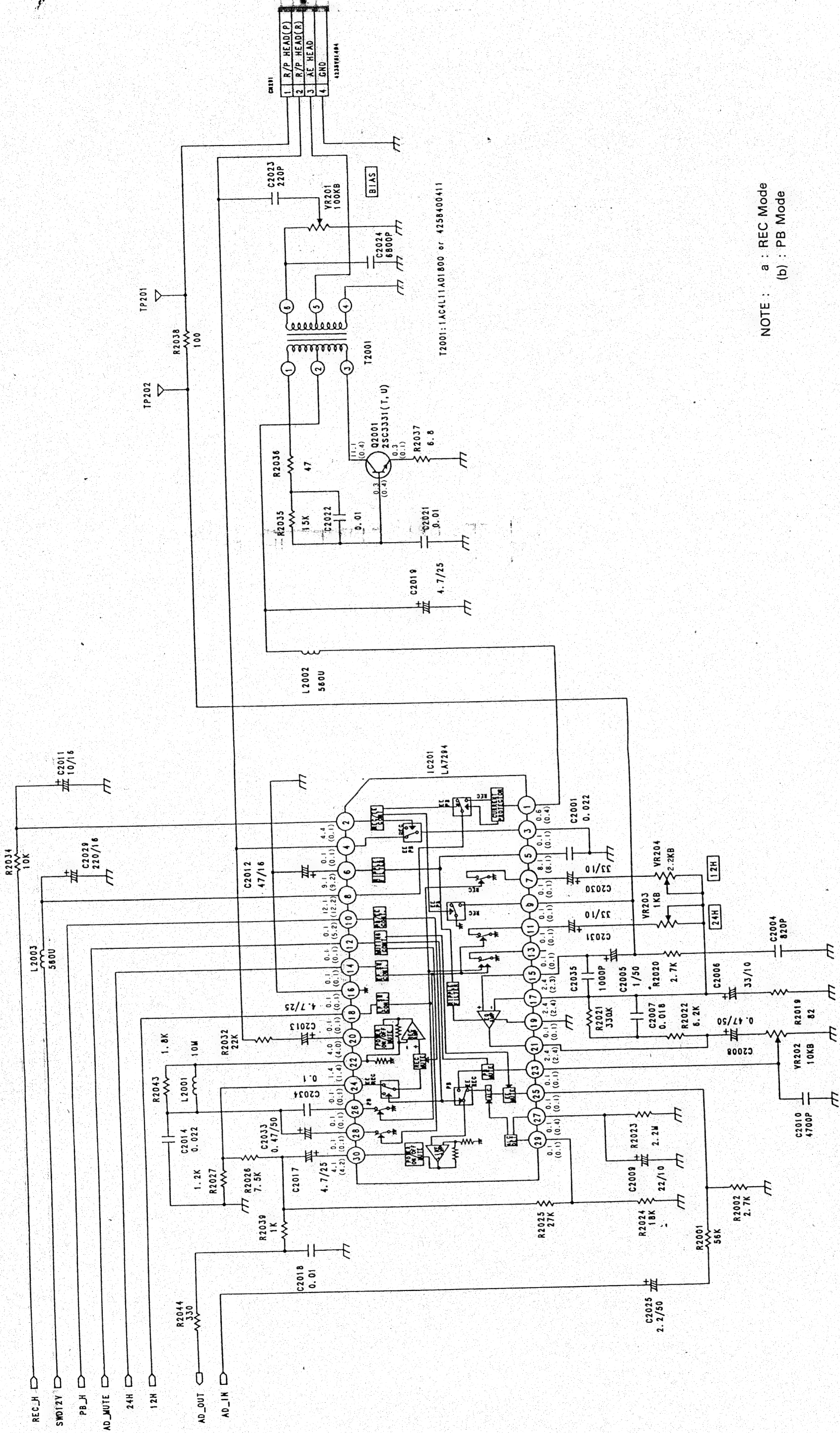
2SC3399 or DTC144ES: Q3003  
2SD400(E,F): Q3001  
MTZJ5.6B or GZS5.6Z: D3005  
MTZJ8.2B or GZS8.2Y: D3006  
GMA01 or 1SS133: NOT SPECIFIED DIODES

NOTE : a : REC Mode  
(b) : PB Mode





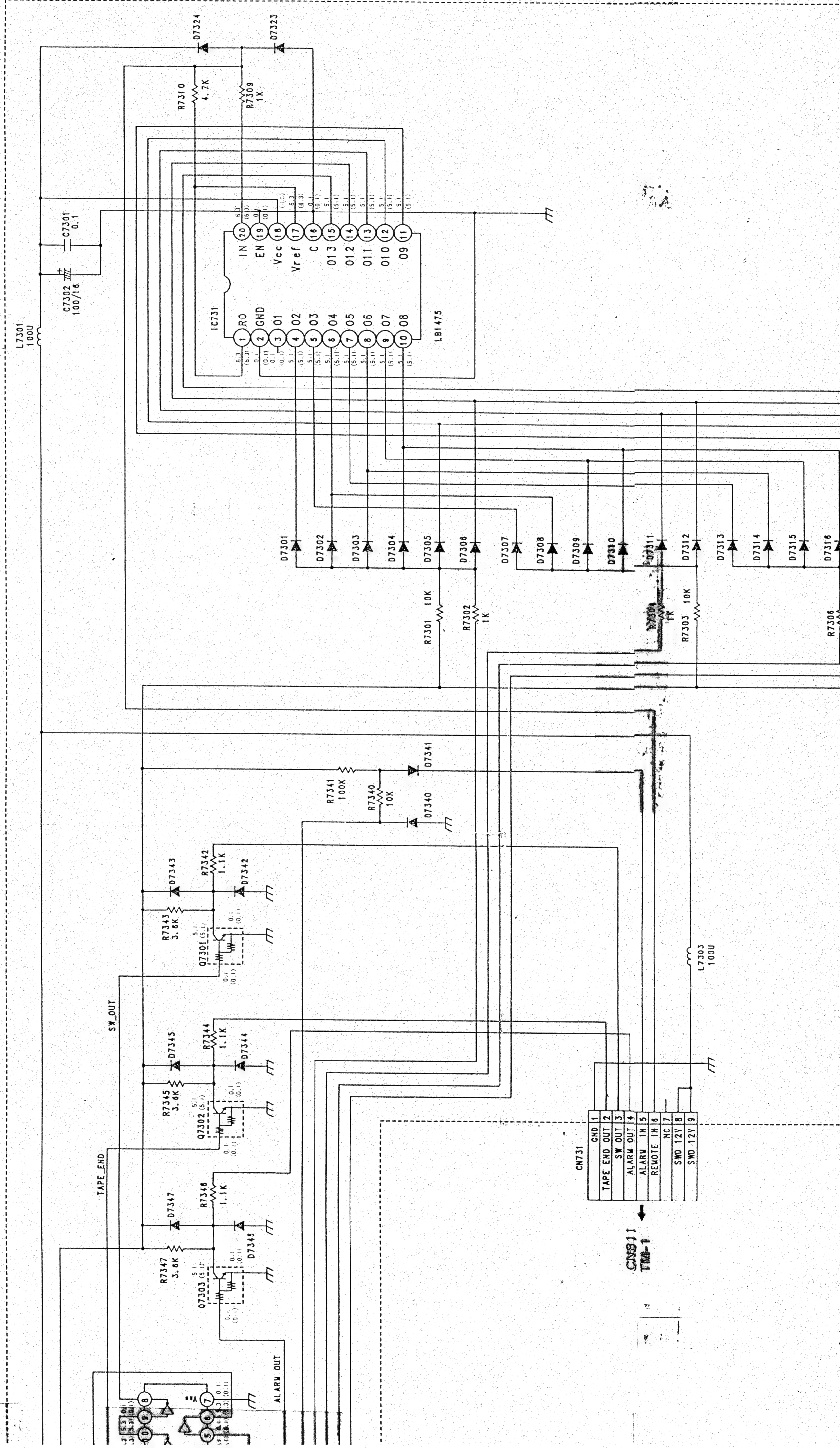
# AD-A CIRCUIT

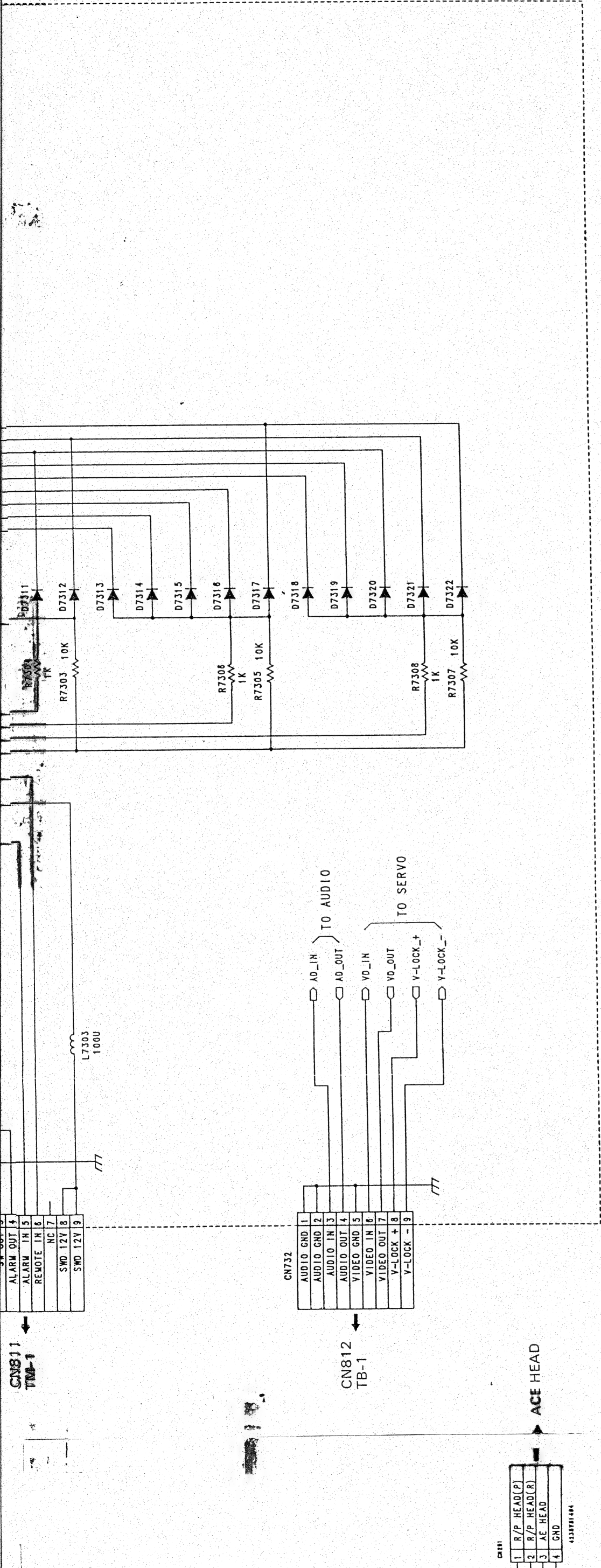


PB LEVEL



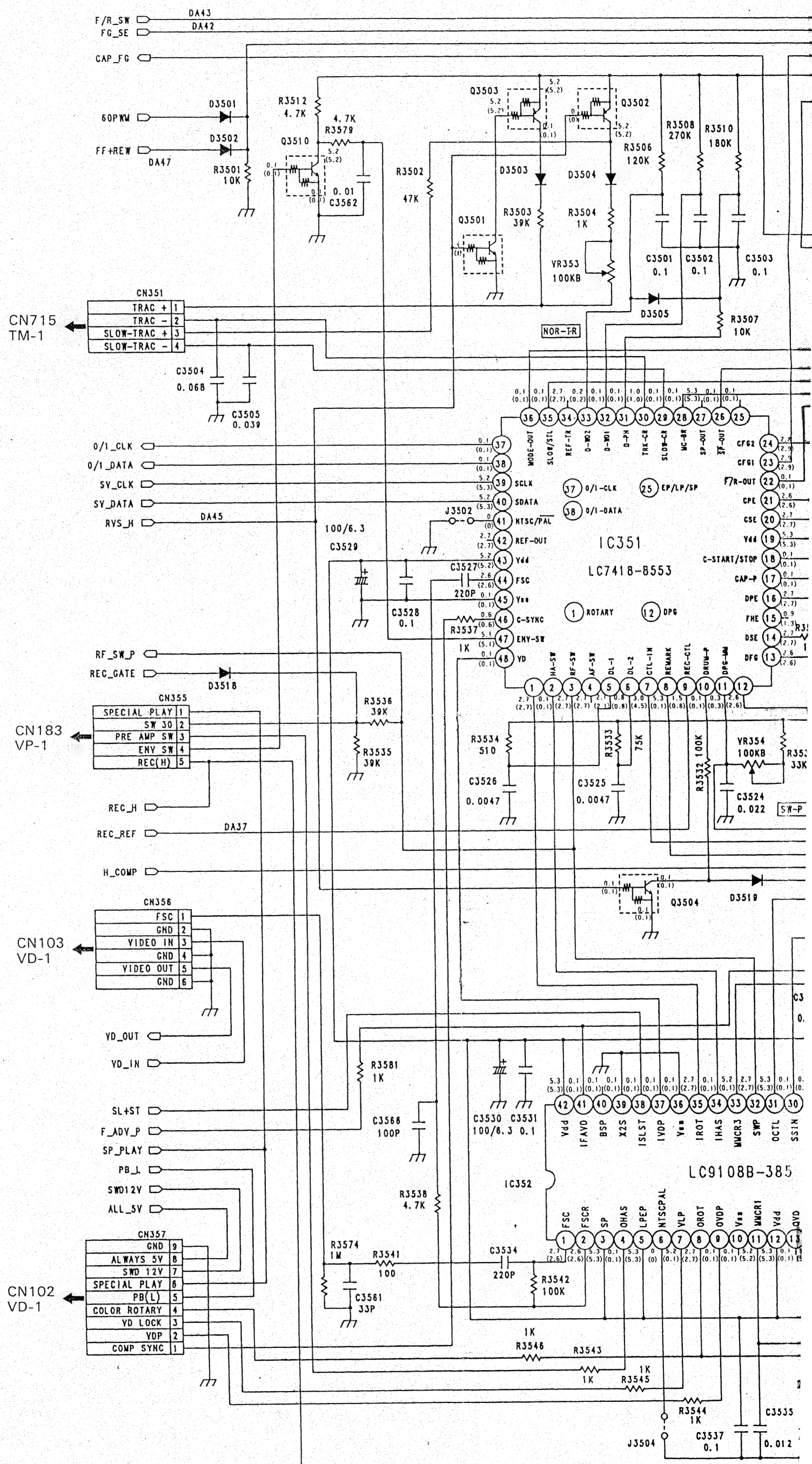
# TM-A CIRCUIT

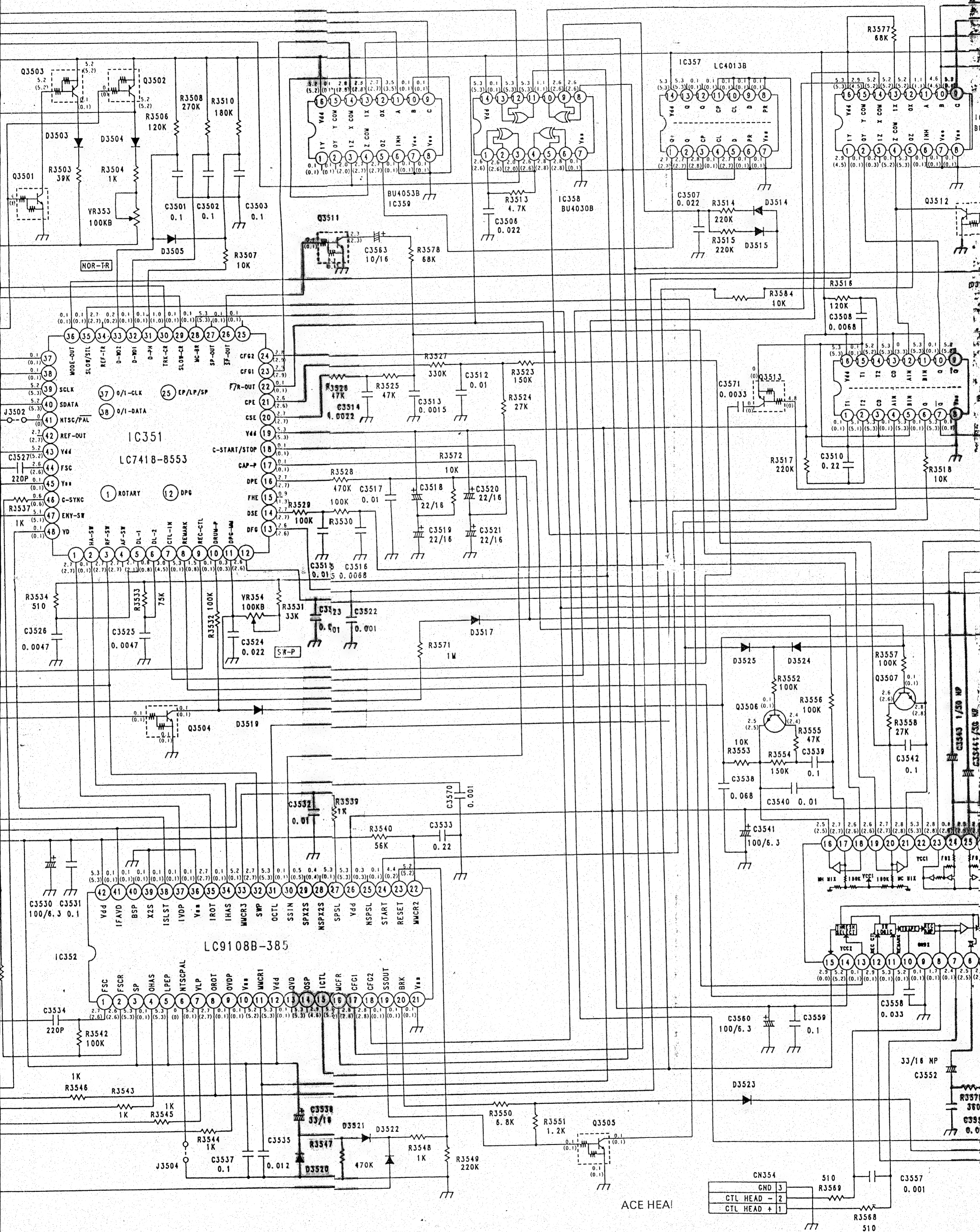




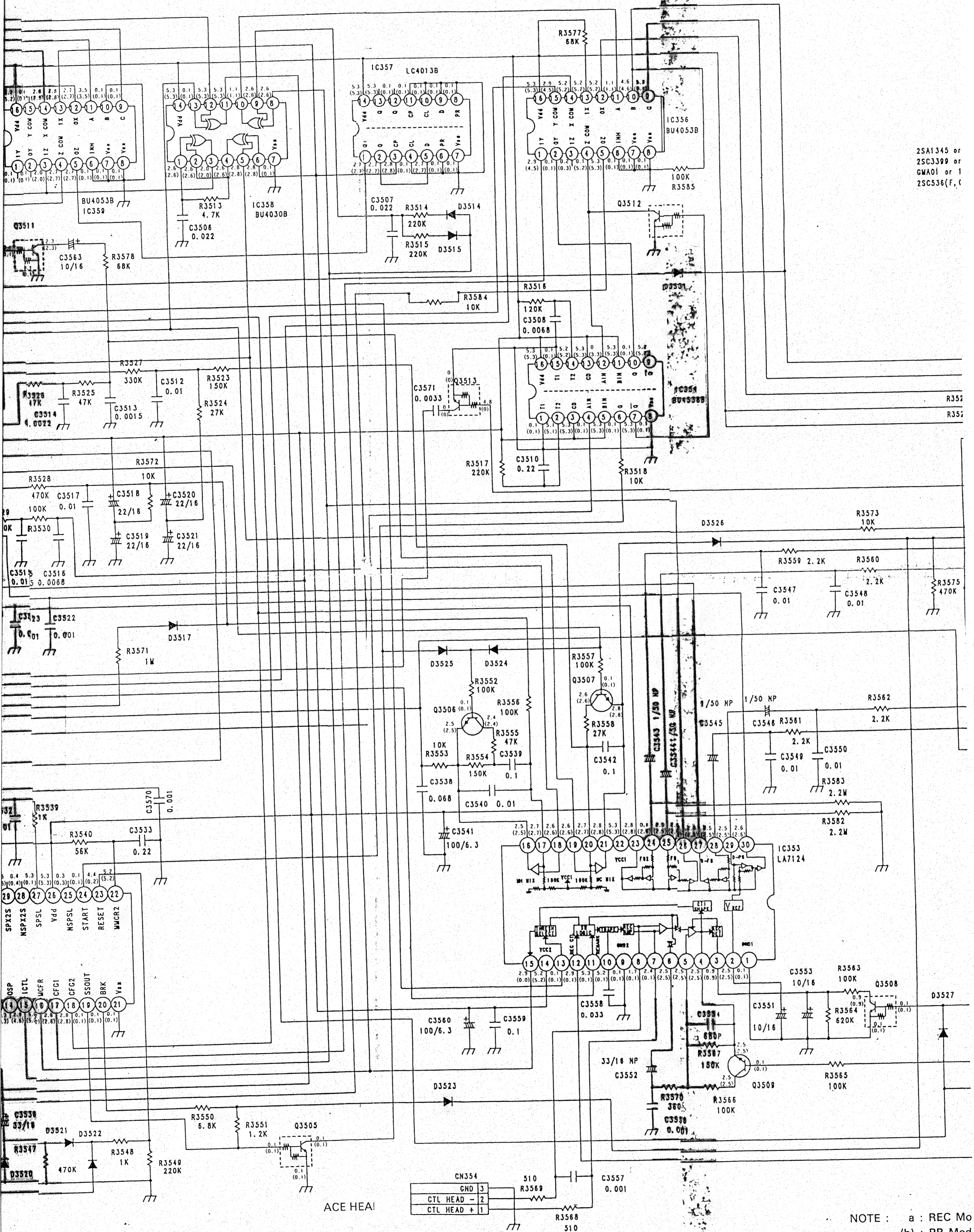
MTZ5.6(A,B,C) or GZ55.6(Y,Z): 08501-08508  
 GMA01 or 1SS133: NOT SPECIFIED DIODES  
 2SC3399 or DTC144ES: NOT SPECIFIED NPN TRANSISTORS





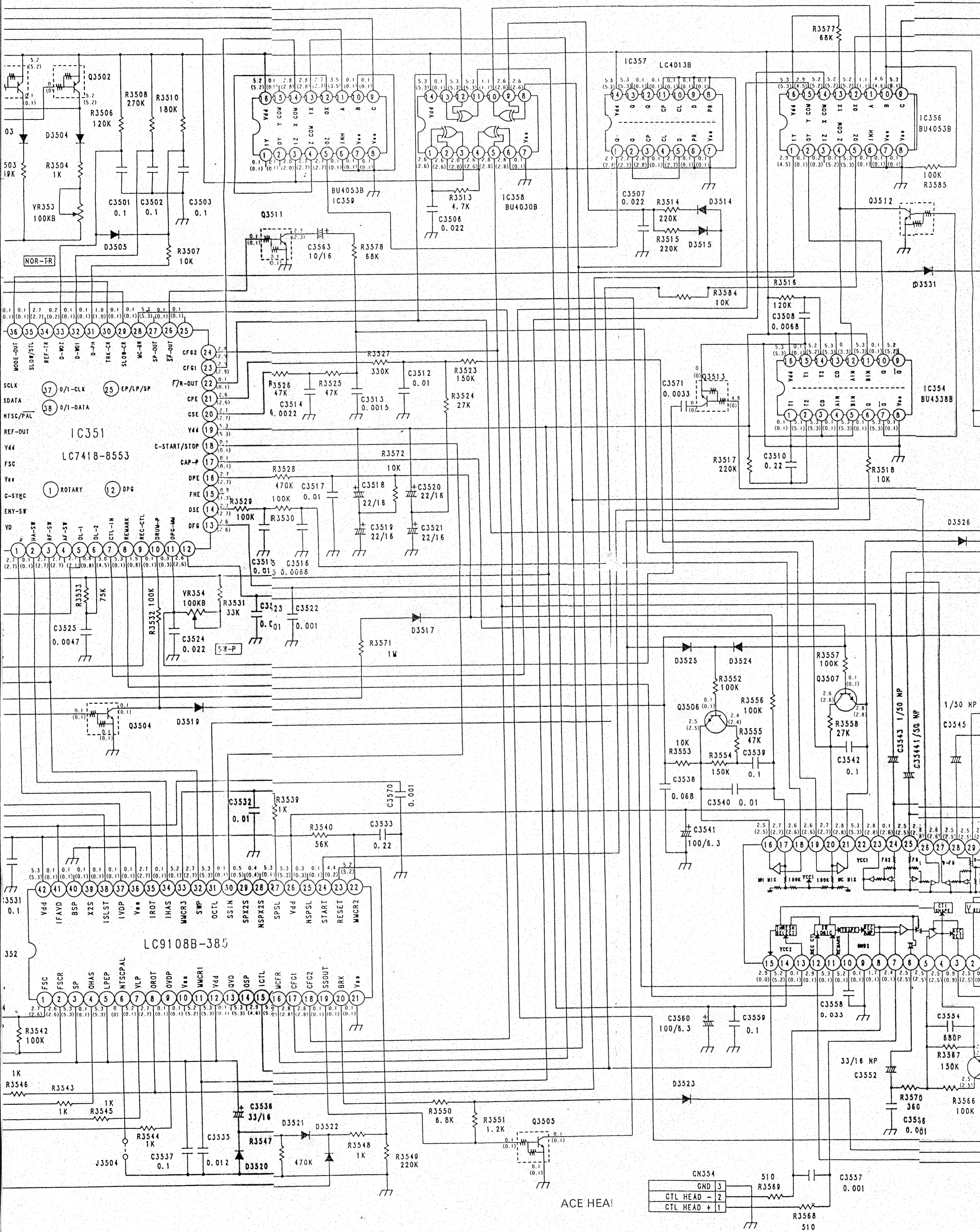




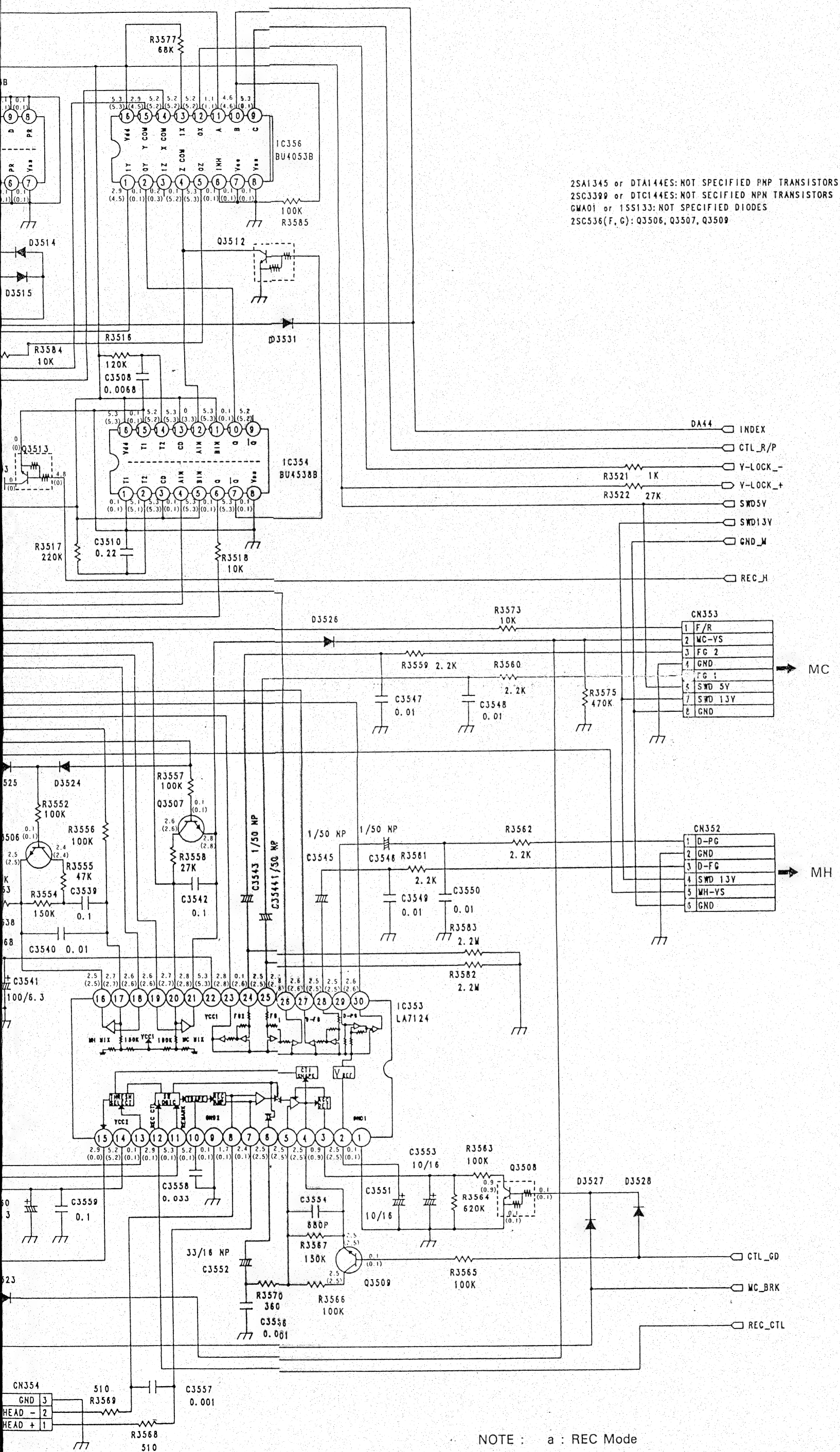


2SA1345 or  
2SC3399 or  
GMA01 or 1  
2SC536(F,C)

NOTE : a : REC Mo  
(b) : PB Mod

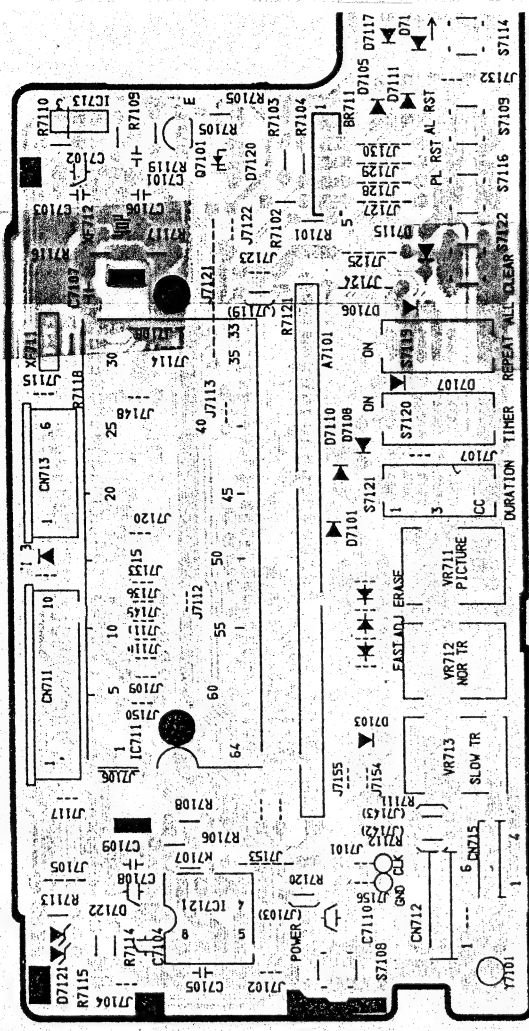




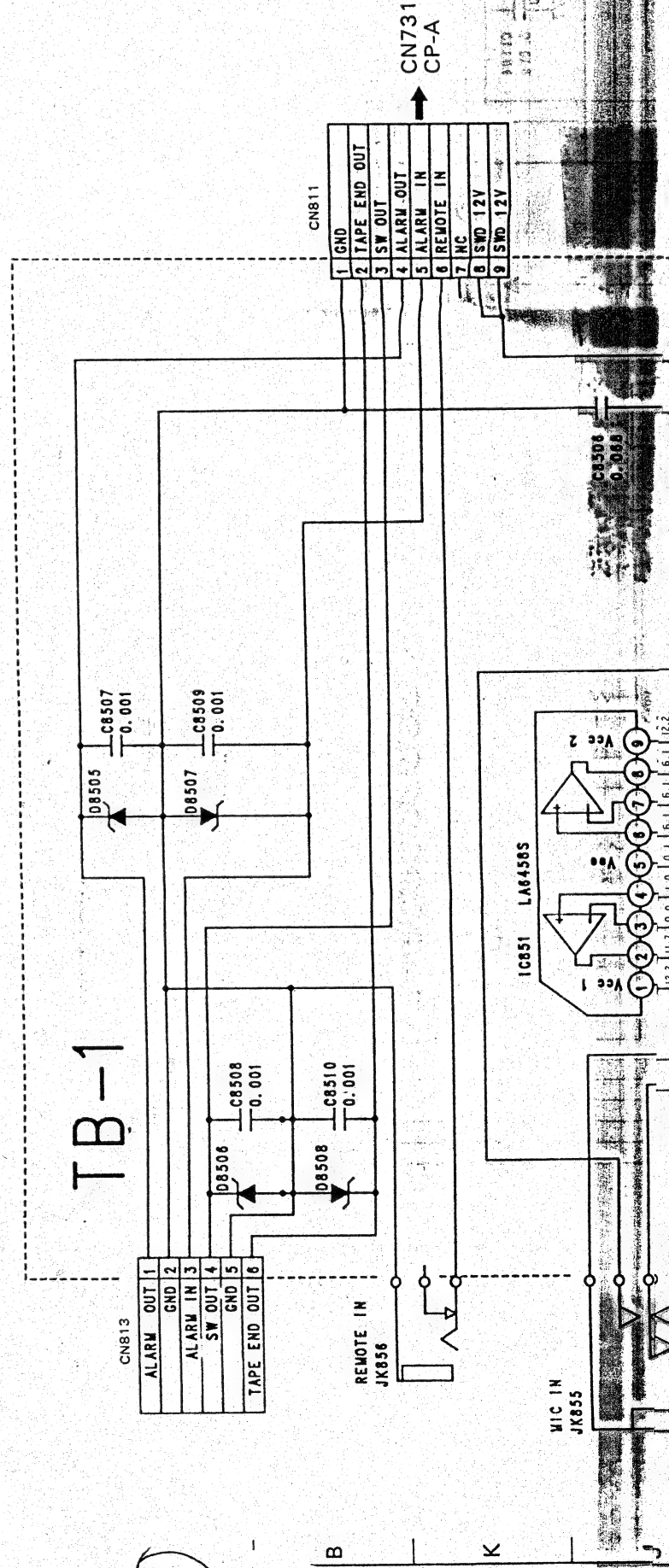
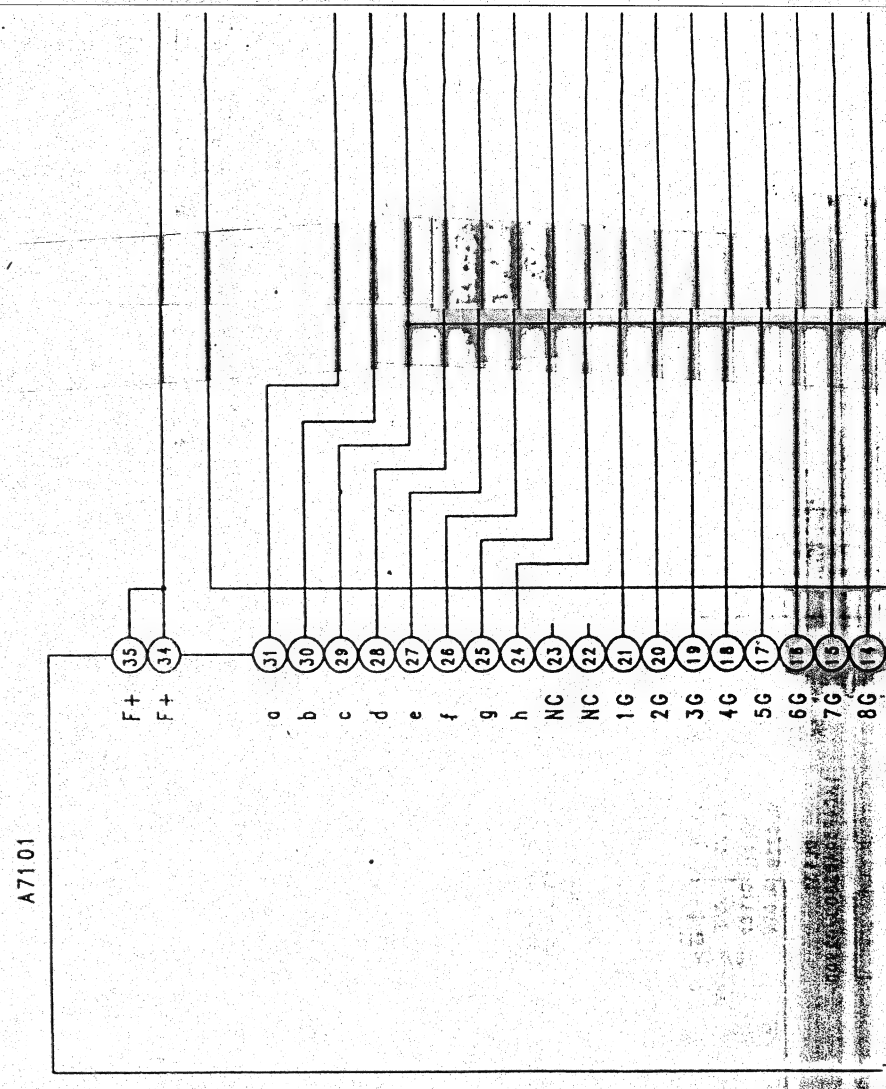


2

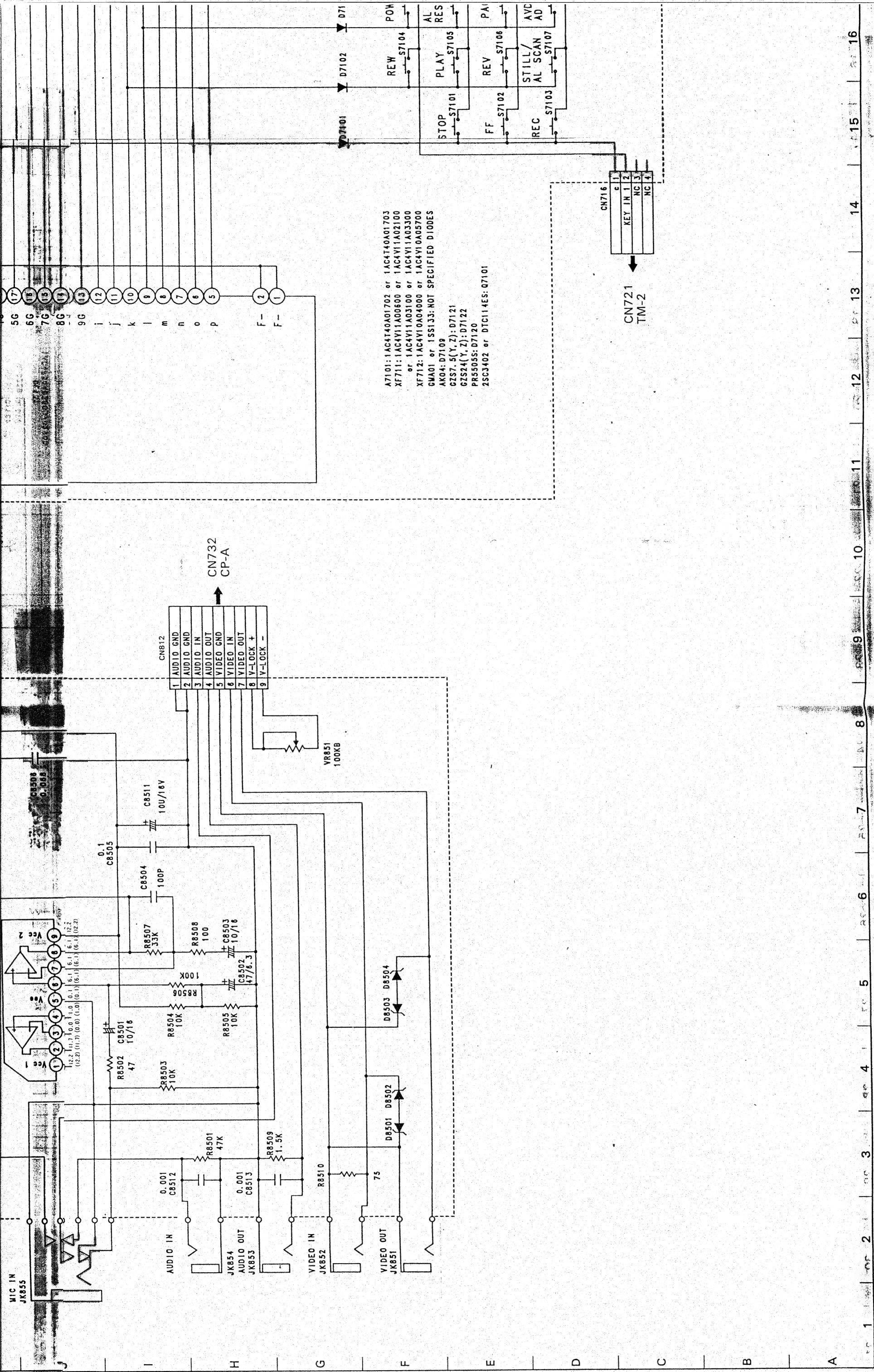
TM-1 P. C.



A71.01

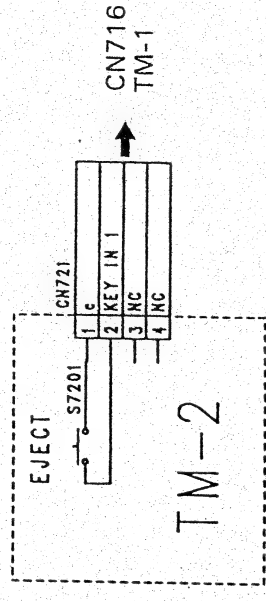




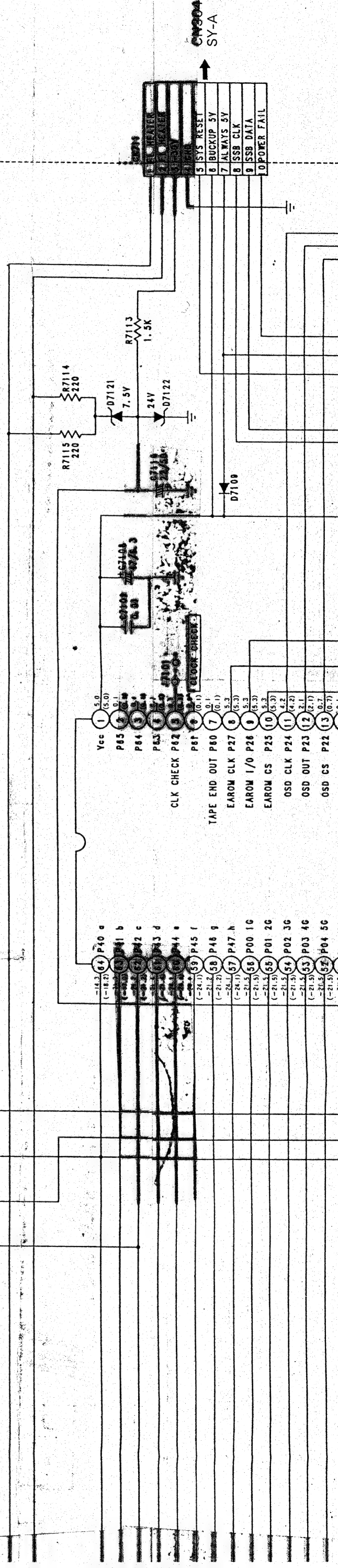
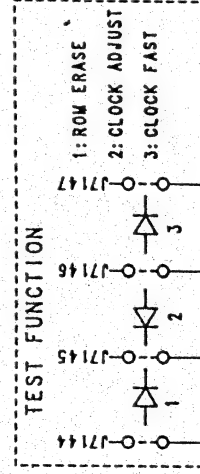


TM-2 P. C. BOARD

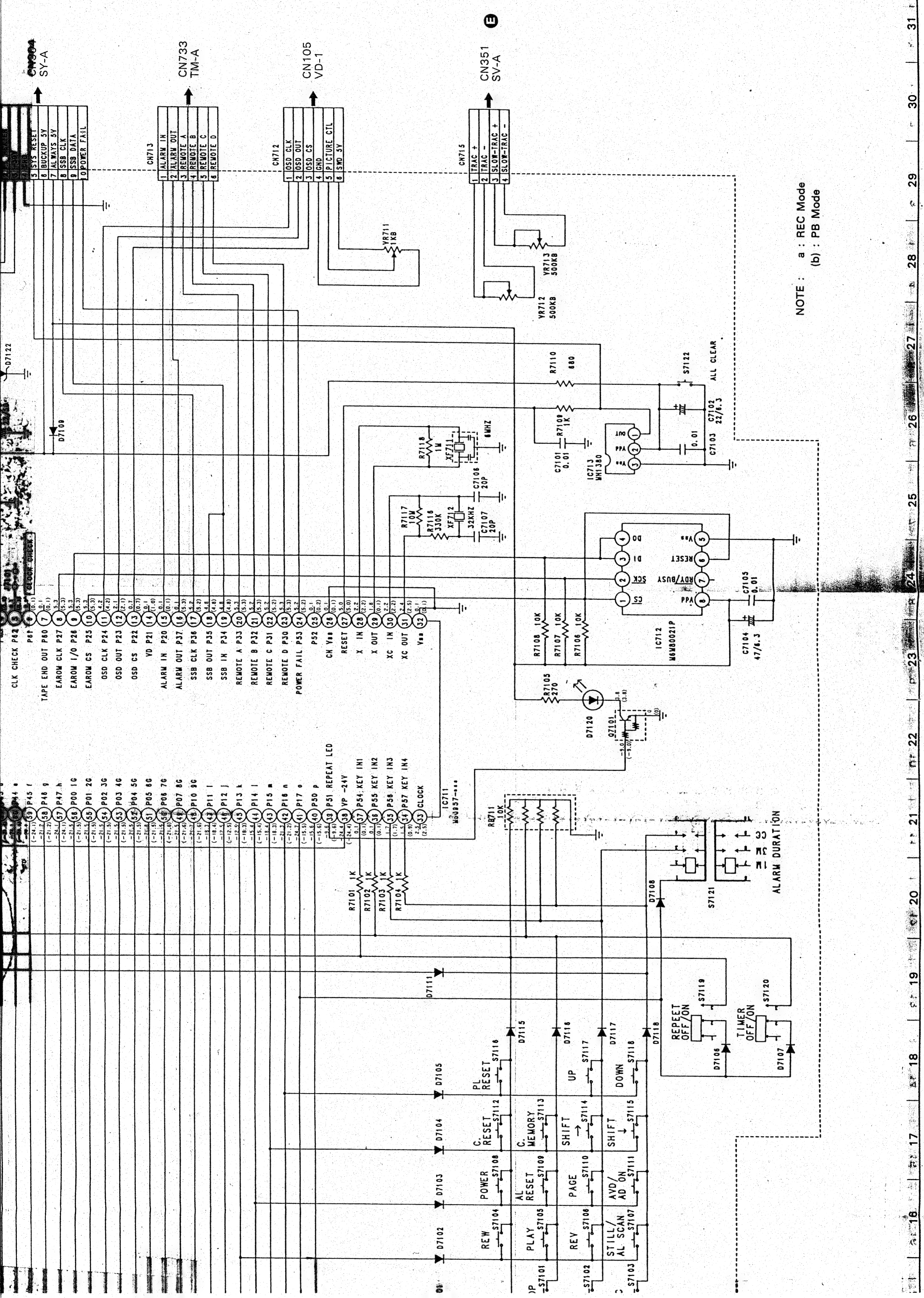
PCB TN-1		L.O. NO.		7101 ~	
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7128	7129	7130	7131	7132	7133
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7194	7195	7196	7197	7198	7199
7200	7201	7202	7203	7204	7205
7206	7207	7208	7209	7210	7211
7212	7213	7214	7215	7216	7217
7218	7219	7220	7221	7222	7223
7224	7225	7226	7227	7228	7229
7230	7231	7232	7233	7234	7235
7236	7237	7238	7239	7240	7241
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7248	7249	7250	7251	7252	7253
7254	7255	7256	7257	7258	7259
7260	7261	7262	7263	7264	7265
7266	7267	7268	7269	7270	7271
7272	7273	7274	7275	7276	7277
7278	7279	7280	7281	7282	7283
7284	7285	7286	7287	7288	7289
7290	7291	7292	7293	7294	7295
7296	7297	7298	7299	7300	7301
7302	7303	7304	7305	7306	7307
7308	7309	7310	7311	7312	7313
7314	7315	7316	7317	7318	7319
7320	7321	7322	7323	7324	7325
7326	7327	7328	7329	7330	7331
7332	7333	7334	7335	7336	7337
7338	7339	7340	7341	7342	7343
7344	7345	7346	7347	7348	7349
7350	7351	7352	7353	7354	7355
7356	7357	7358	7359	7360	7361
7362	7363	7364	7365	7366	7367
7368	7369	7370	7371	7372	7373
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7392	7393	7394	7395	7396	7397
7398	7399	7400	7401	7402	7403
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7410	7411	7412	7413	7414	7415
7416	7417	7418	7419	7420	7421
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7434	7435	7436	7437	7438	7439
7440	7441	7442	7443	7444	7445
7446	7447	7448	7449	7450	7451
7452	7453	7454	7455	7456	7457
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7464	7465	7466	7467	7468	7469
7470					



TM-1



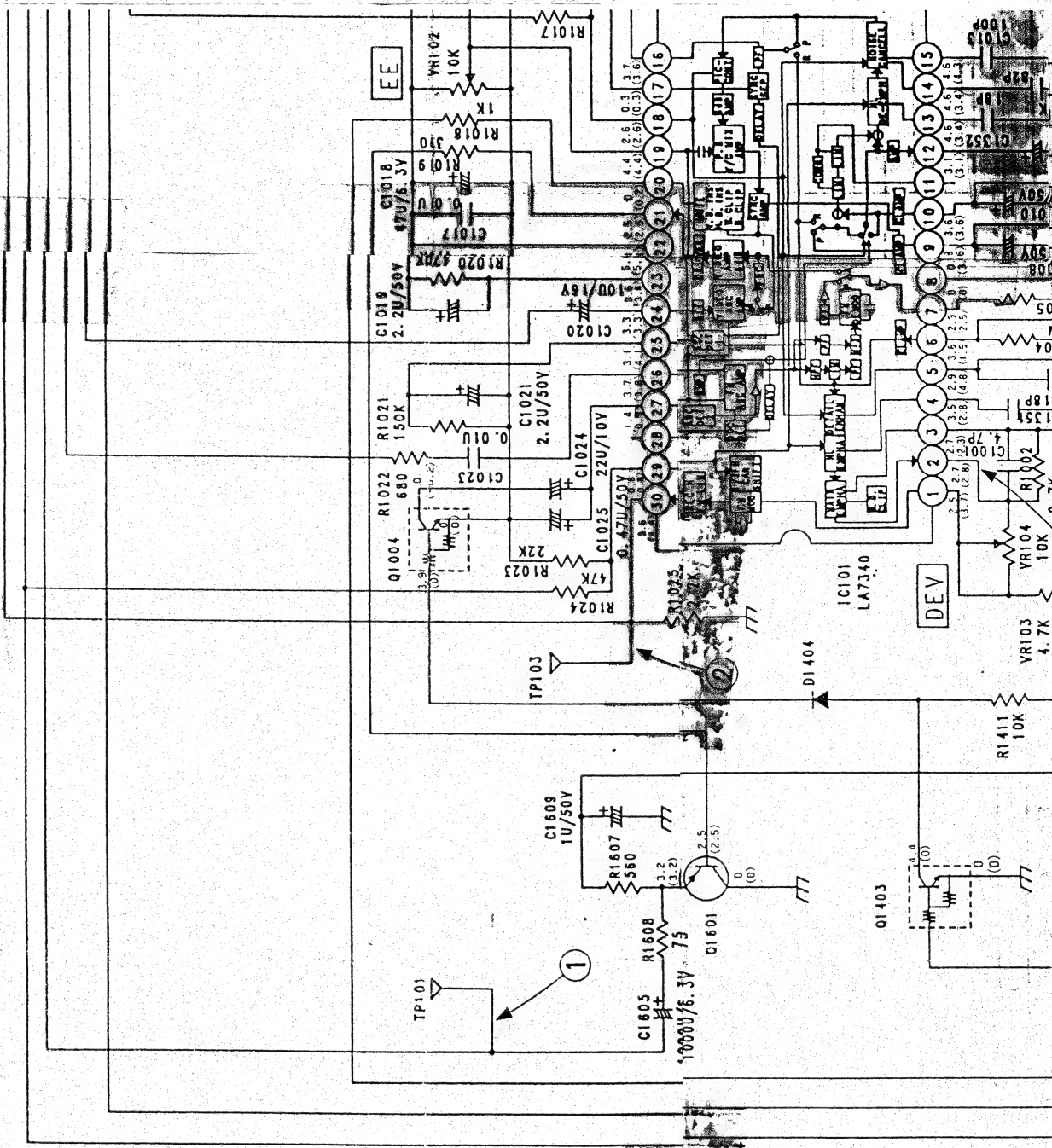
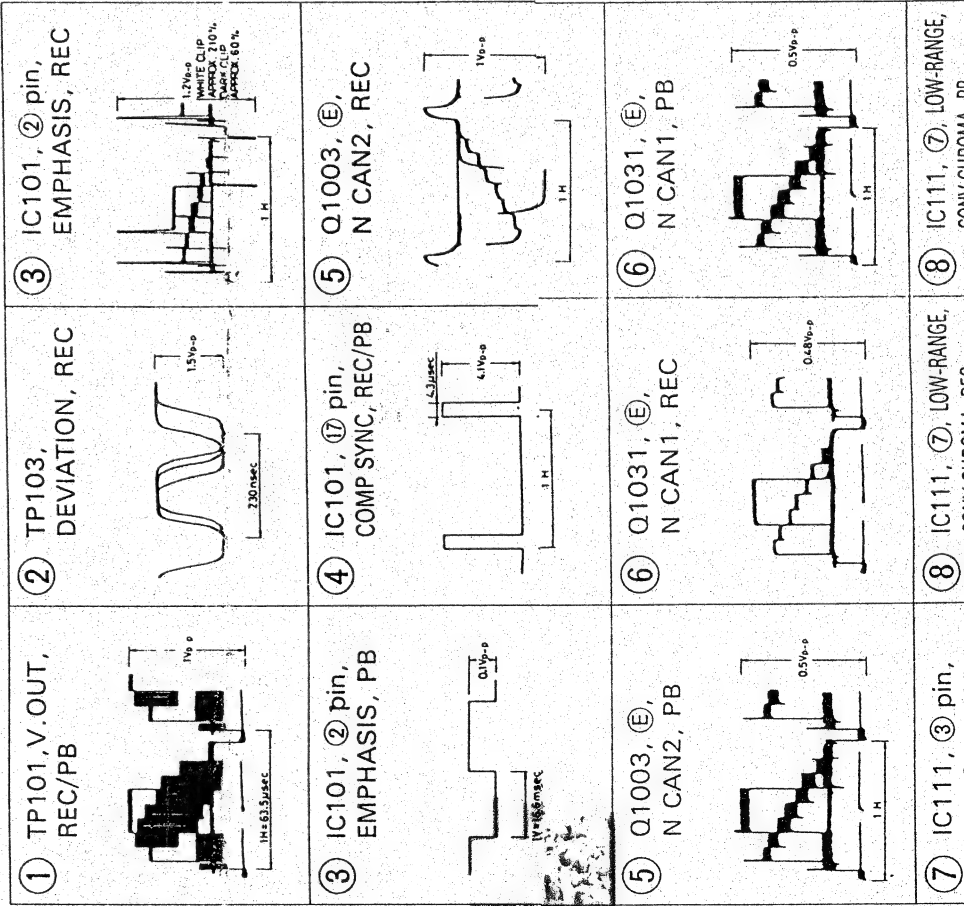
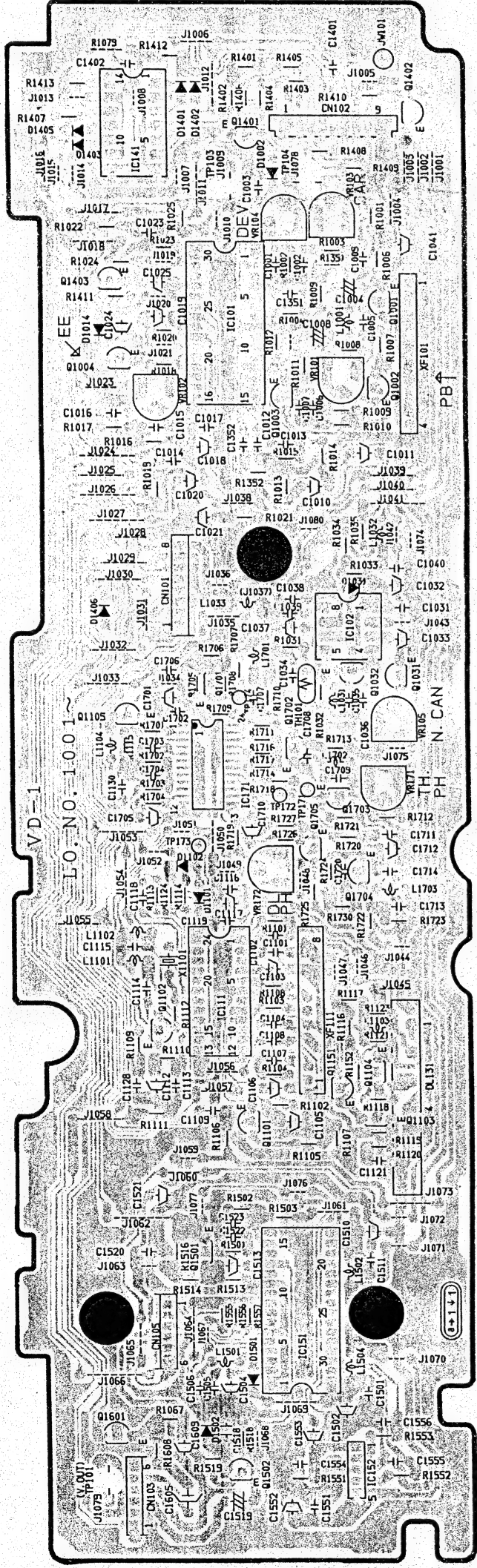




NOTE : a : REC Mode  
(b) : PB Mode



# VD-1 P. C. BOARD

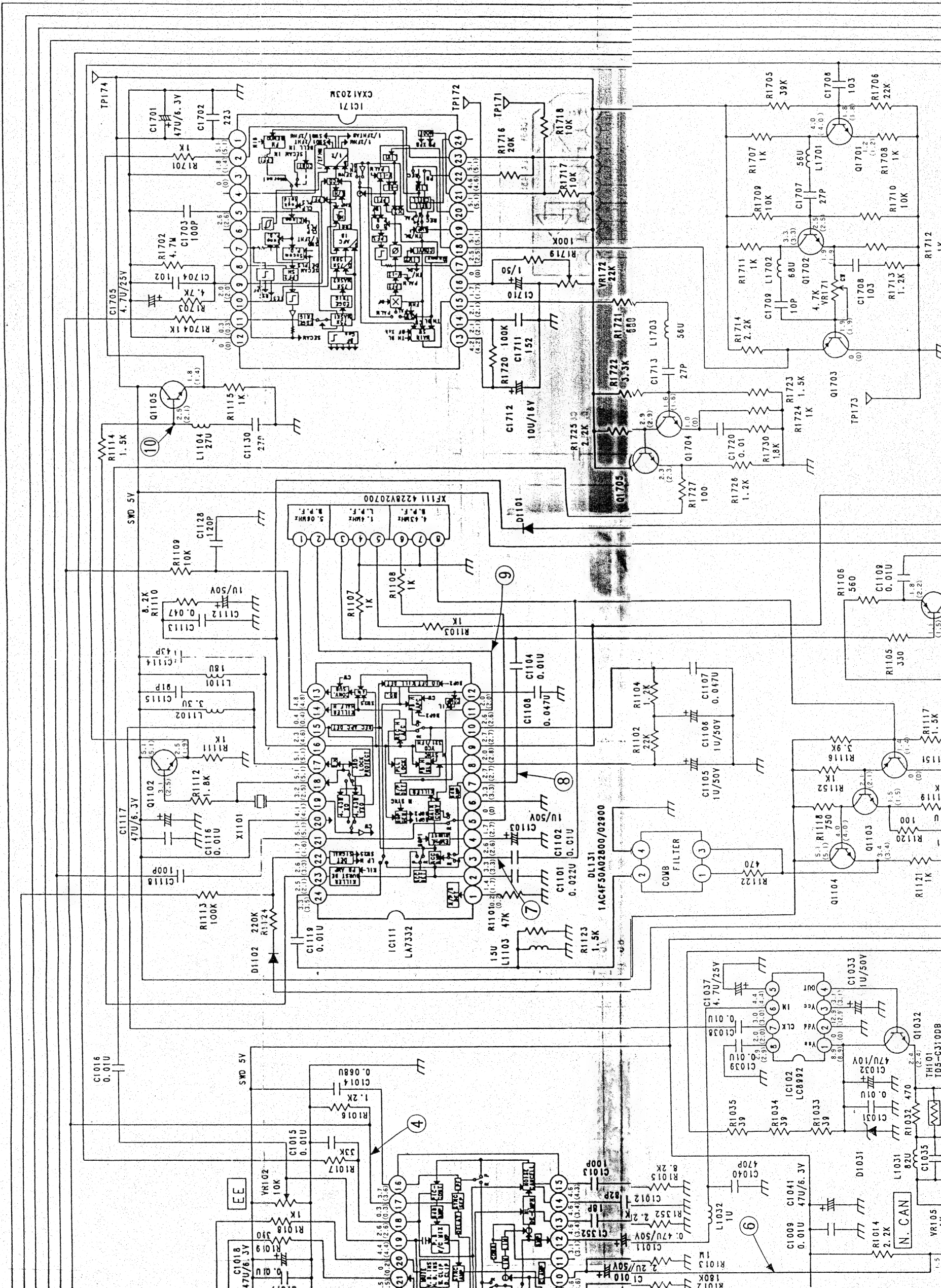






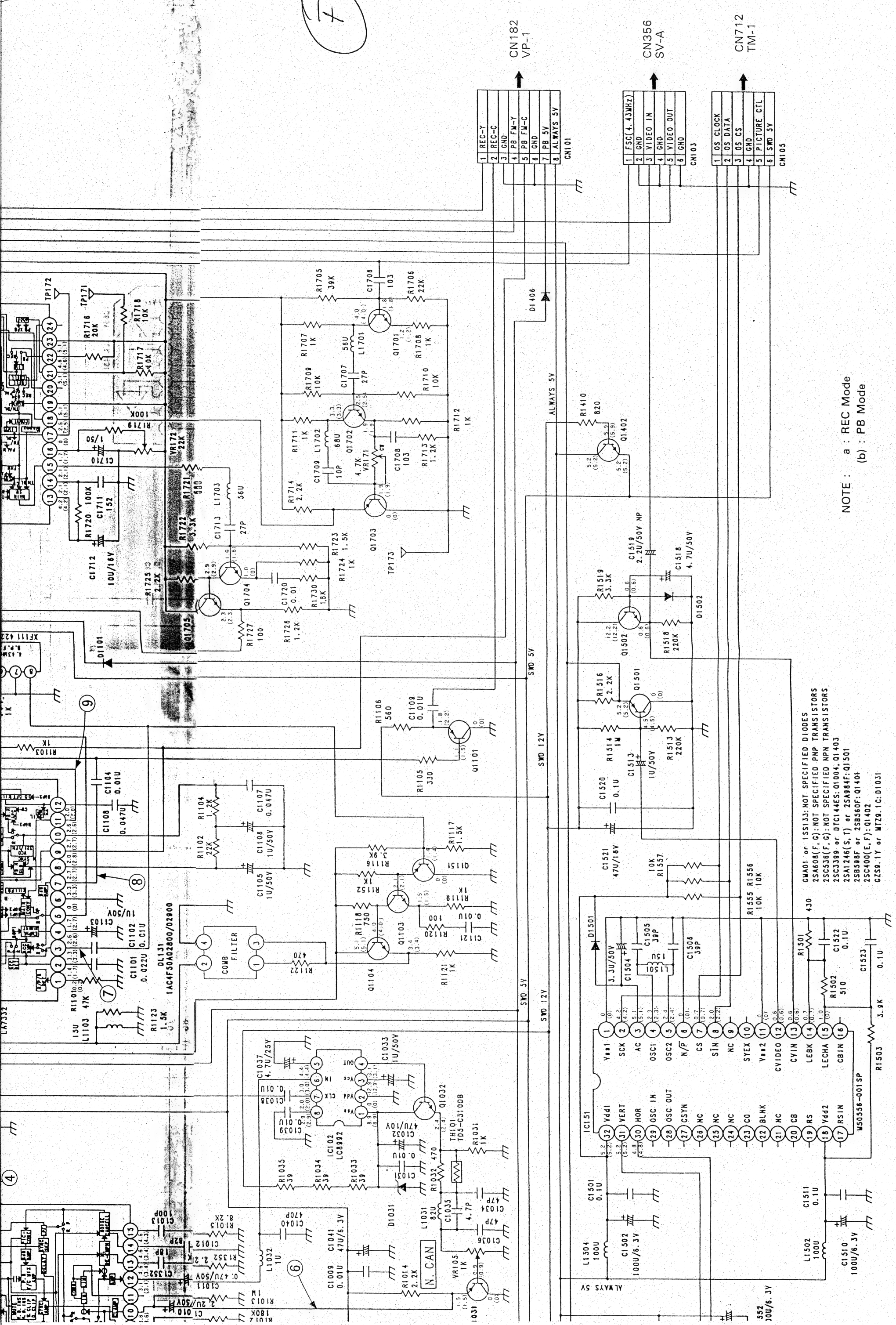
# VD-1 CIRCUIT

X1101: 1AC4V10A00700 or 1AC4V10A02500

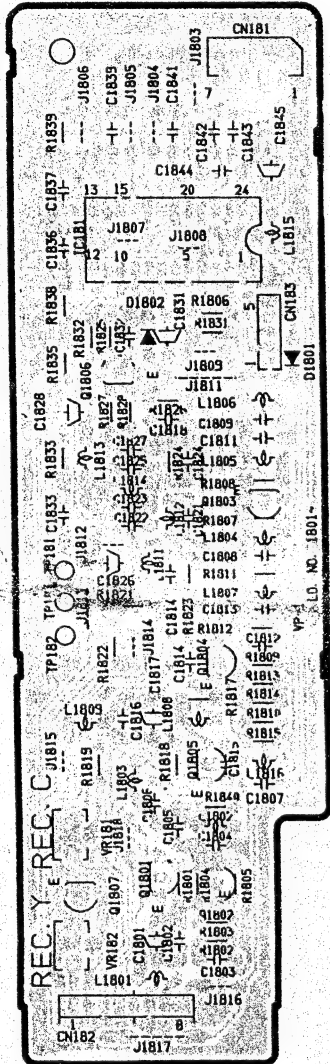


7



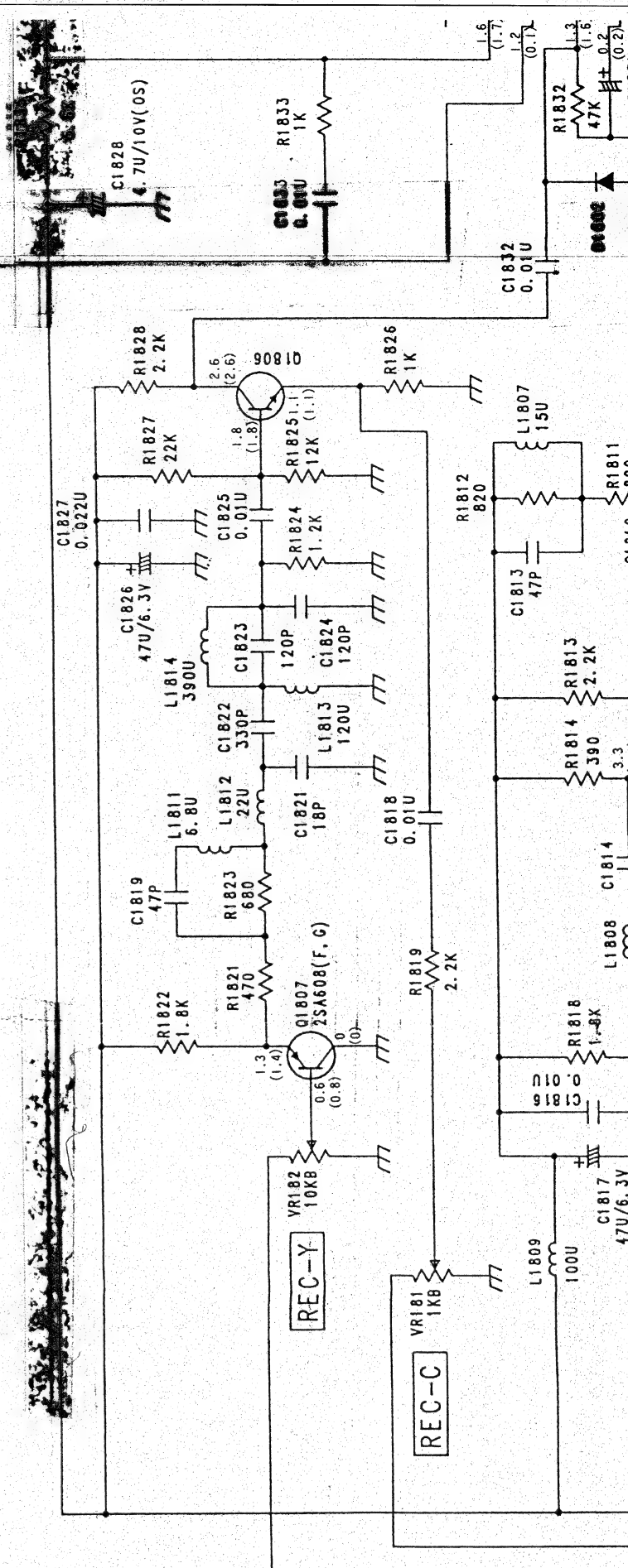


# VP-1 P. C. BOARD



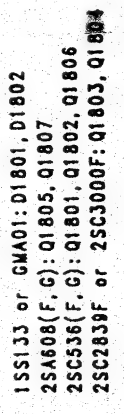
## VP-1 CIRCUIT

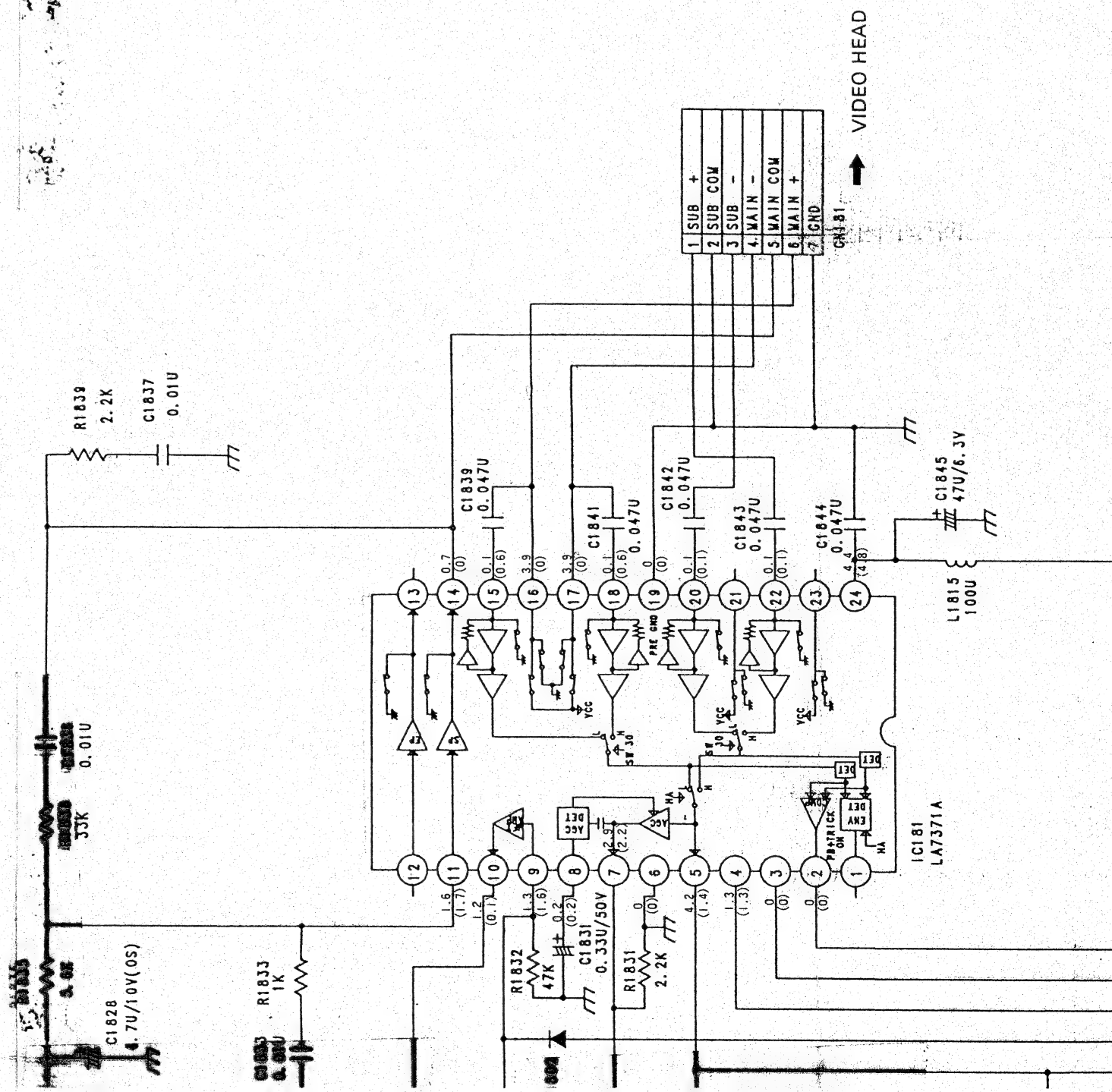
TP181  
(REC CURRENT)



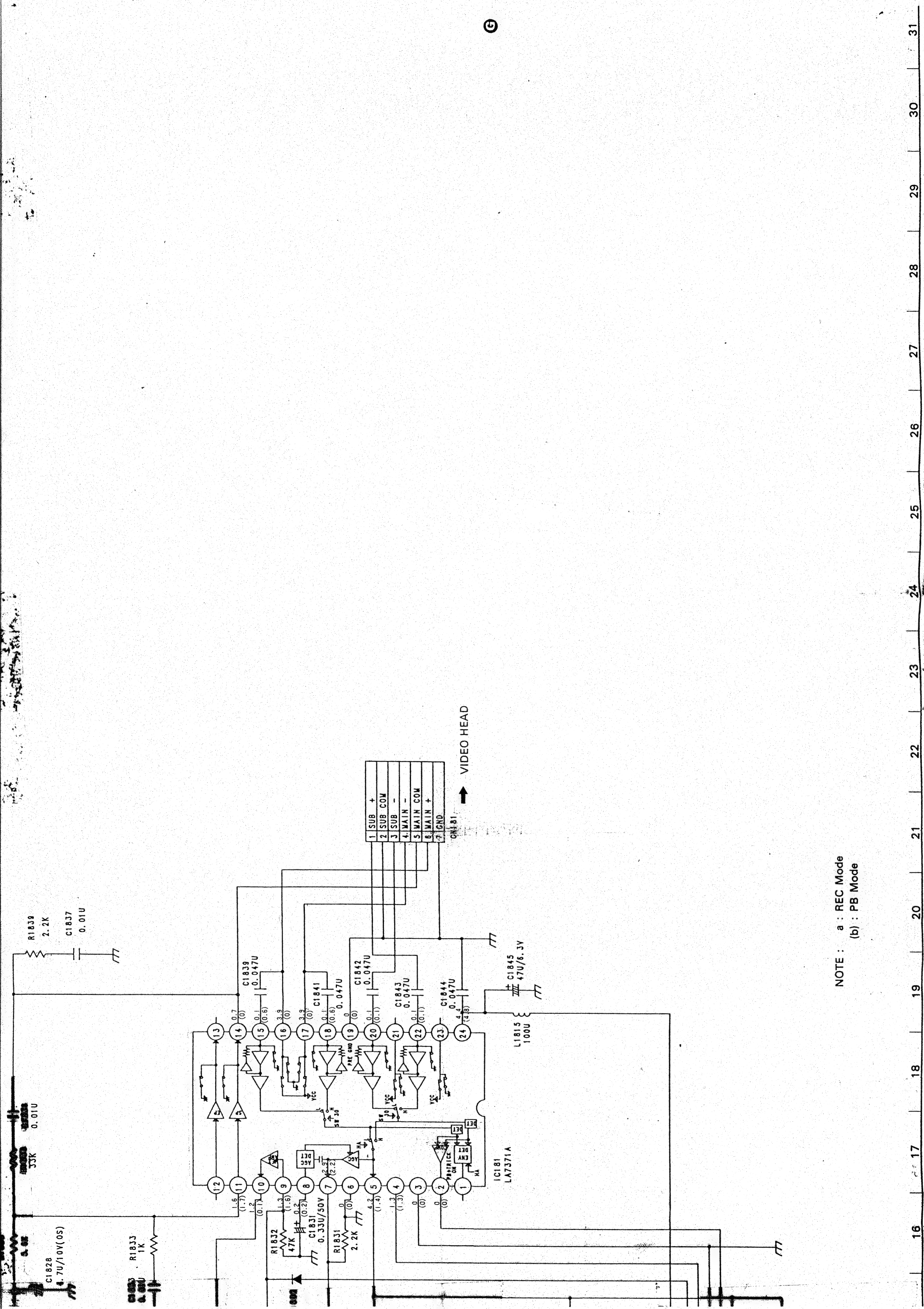
67



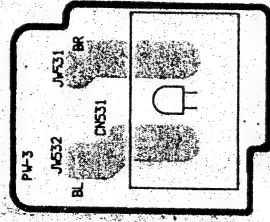
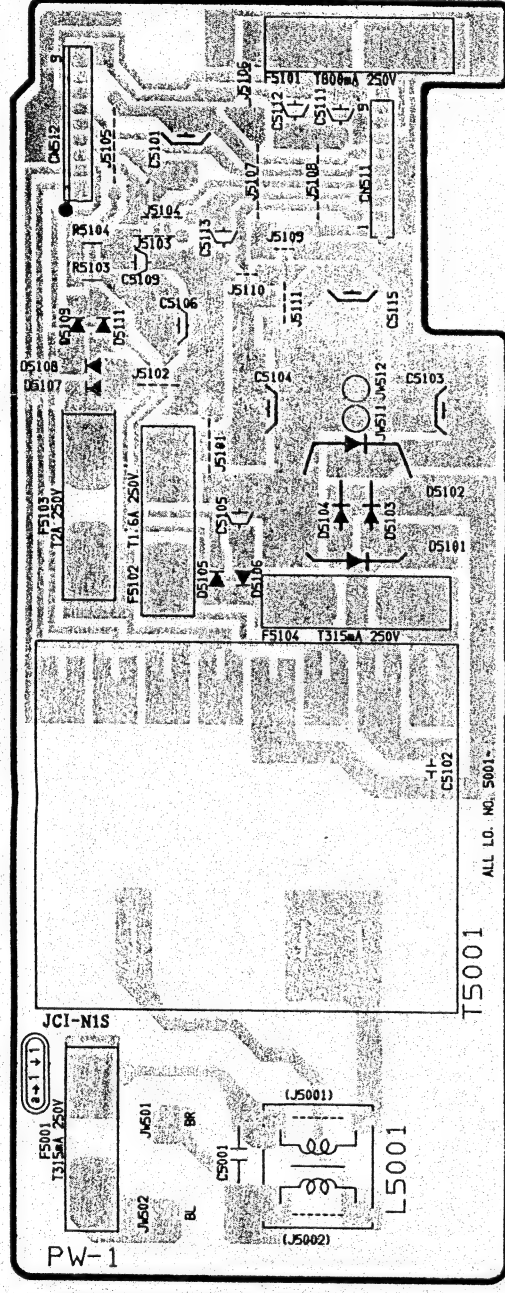




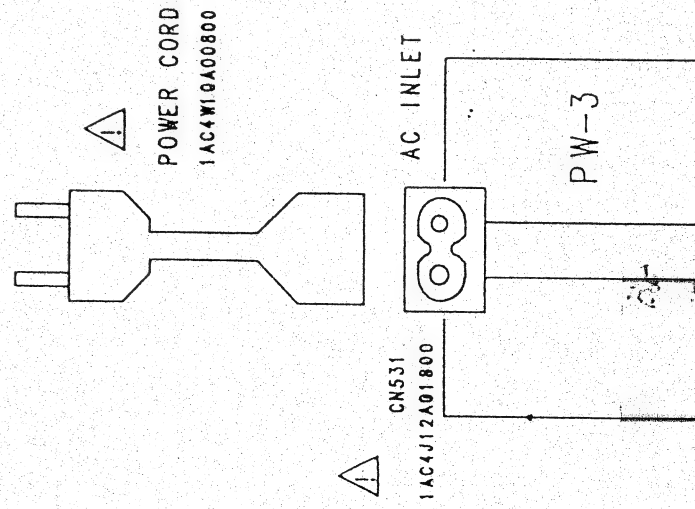




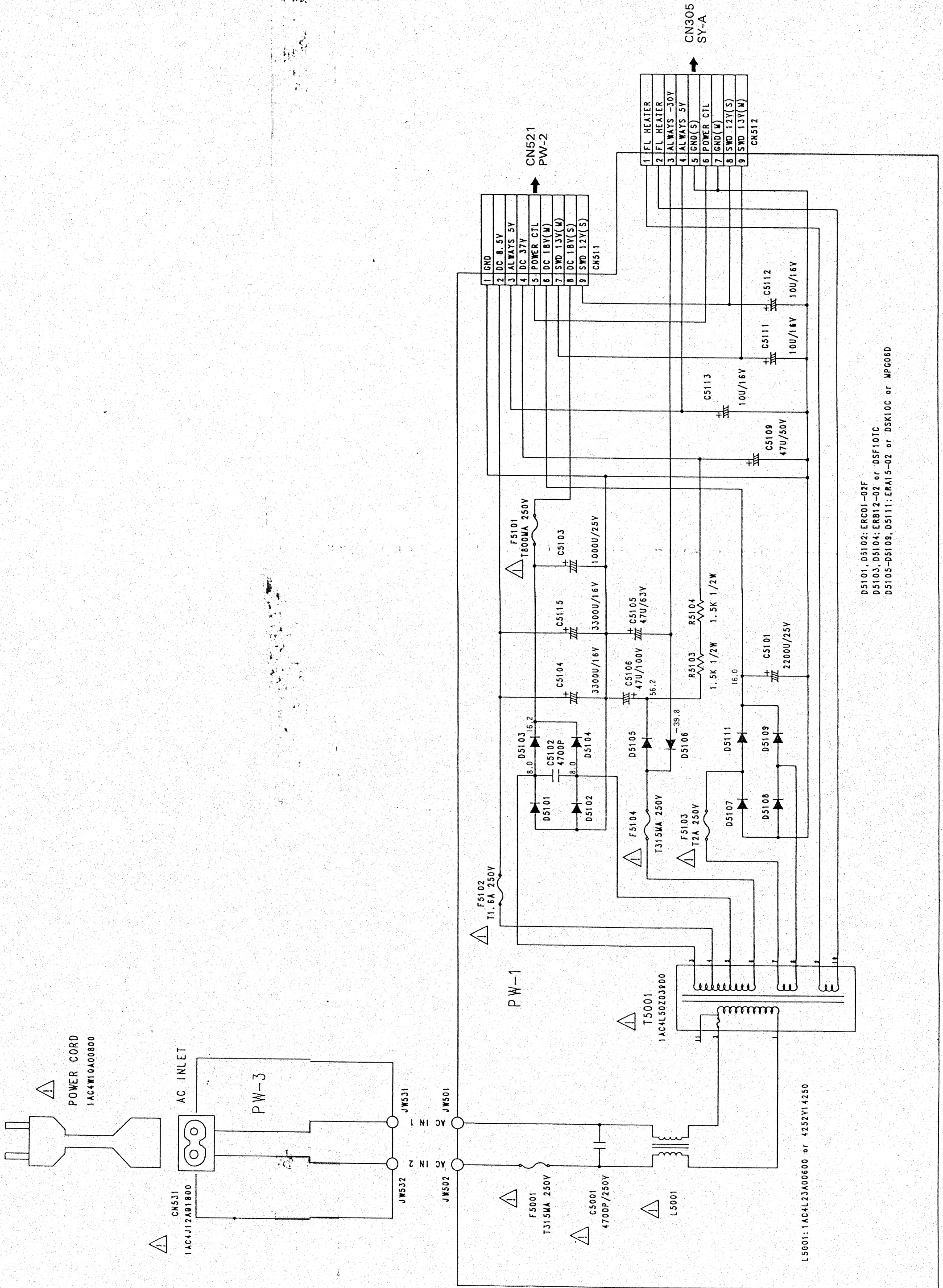
NOTE : a : REC Mode  
(b) : PB Mode



PW-1 &amp; PW-3 CIRCUIT





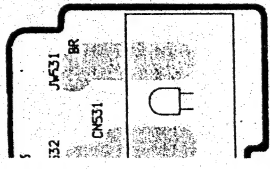


D5101, D5102: ERC01-02F  
D5103, D5104: ERB12-02 or DSF10TC  
D5105-D5109, D5111: ERA15-02 or DSK10C or WPG06D

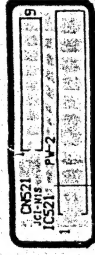




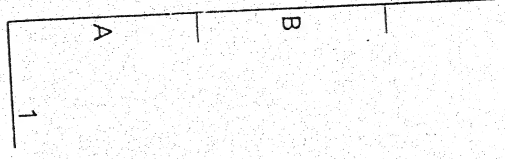
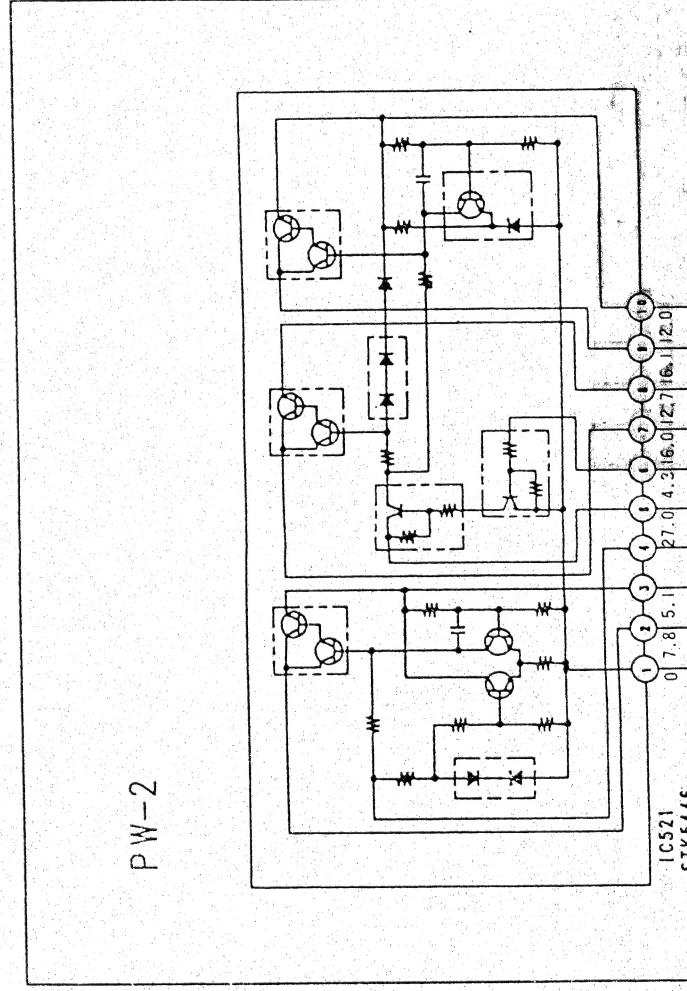
P. C. BOARD



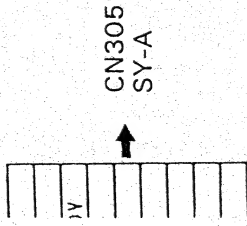
PW-2 P. C. BOARD



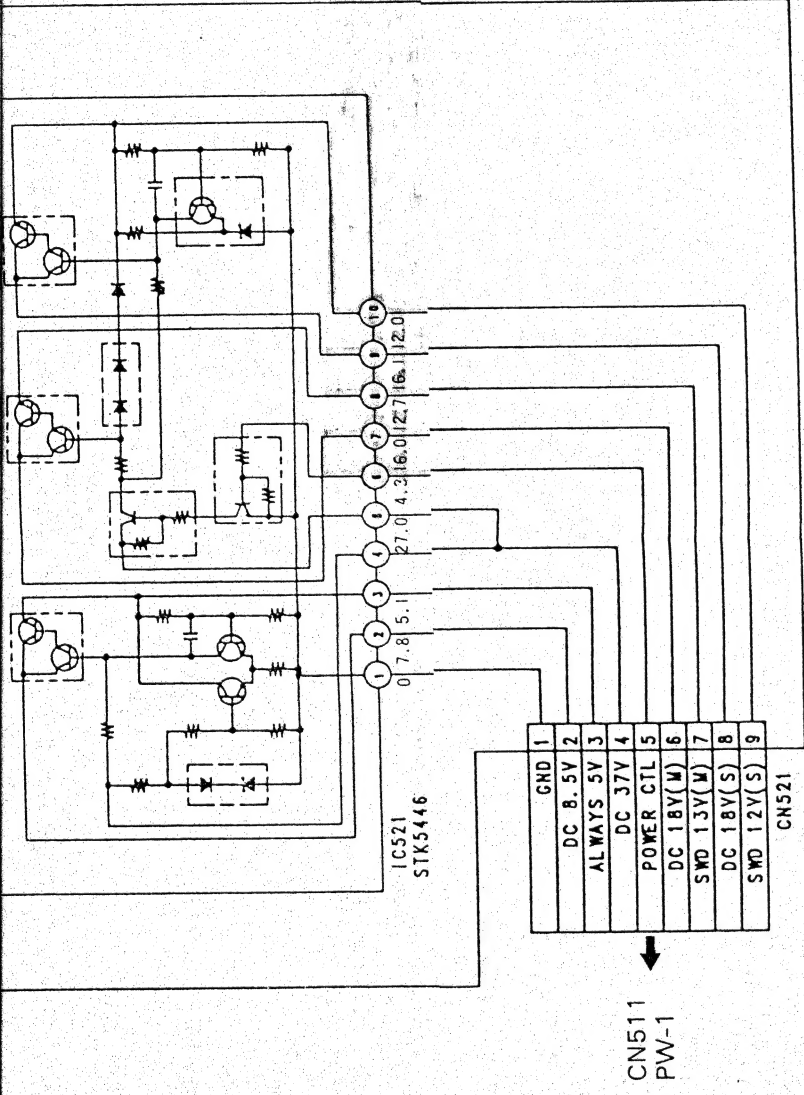
PW-2 CIRCUIT



41



NOTE : REC/PB Mode



41